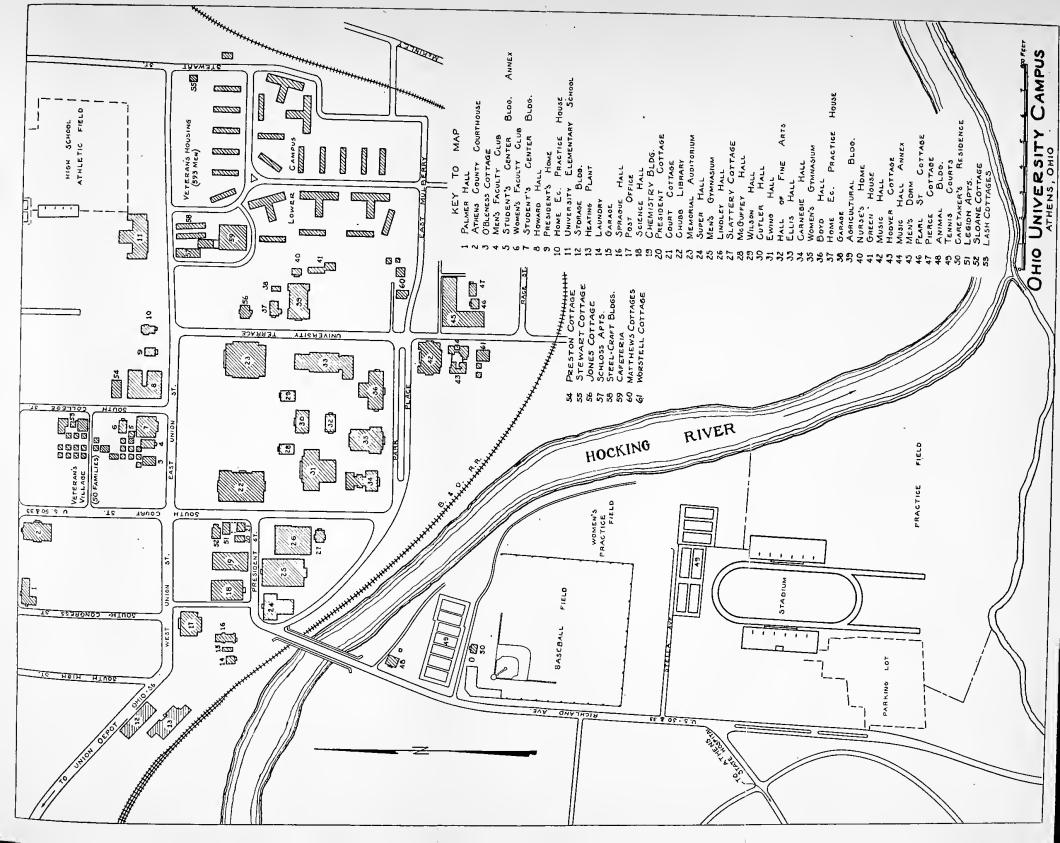
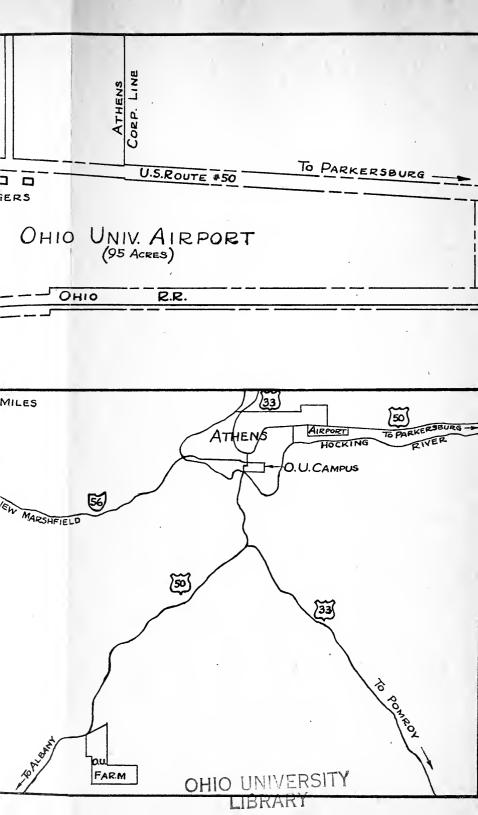


NIVERSITY BULLETII



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THE UNIVERSITY CALENDAR FOR 1947-1948

THE 1947 SUMMER SCHOOL

(EIGHT-WEEK SESSION)

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June	16 M	Advising and counseling of students
June	17 Tu	Registration
June	18 W	Classes begin
June	23 M	Last day for registering for the session
June	30 M	Last day for filing application for graduation
July	4 F	A holiday
Aug.	4 M	Masters' theses due in the library
Aug.	9 Sa	Session closes; commencement
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(THREE-WEEK POST SESSION)

Aug.	11 M	Advising and registration in morning
Aug.	11 M	Classes begin in afternoon
Aug.	12 Tu	Last day for registering for the session
Aug.	13 W	Last day for filing application for graduation
Aug.	25 M	Masters' theses due in library
Aug.	29 F	Session closes at end of last class period

FIRST SEMESTER

Sept.	15 M	Tests and meetings for new freshmen
Sept.	15 M	Advising of degree college students
Sept.	16 Tu	Counseling of University College students
Sept.	17 W	Counseling continues
Sept.	19 F	Registration begins
Sept.	20 Sa	Registration continues
Sept.	, 22 M	Classes begin
Sept.	27 Sa	Last day for filing application for graduation
Sept.	29 M	Last day for registering for the semester
		Thanksgiving recess begins at close of last class period
		Classes resume
		Christmas recess begins at noon
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		Classes resume
		Masters' theses due in the library
Jan.	31 Sa	Semester closes
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		SECOND SEMESTER

SECOND SEMESTER

Feb. Feb.		Advising continues until noon
Feb.	3 Tu	Counseling of University College students begins at
1		1:00 p.m.
Feb.	4 W	Counseling continues
Feb.		Registration begins
Feb.	7 Sa	Registration continues
Feb.	9 M	Classes begin
Feb.	14 Sa	Last day for filing application for graduation
Feb.	16 M ·	Last day for registering for the semester
Mar.	23 Tu	Spring recess begins at close of last class period
Mar.	$31~\mathrm{W}$	Classes resume
June	2 W	Masters' theses due in the library
June	6 Su	Commencement

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E. C. Eikenberry, Camden	Indefinite
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Arthur C. Johnson, Columbus	Indefinite
Thomas J. Davis, Cincinnati	Indefinite
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Gordon K. Bush, Athens	1948
Rhys D. Evans, Akron	
C. Don McVay, Leroy	1950
A. Ross Alkire, Mt. Sterling	1951
Earl C. Shively, Columbus	1952
John W. Galbreath, Columbus	1953
Clyde Hissong, Director of Education	Ex Officio

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C. Don McVay	Vice-chairman
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^{*}Died Feb. 12, 1947. †The president of the university and the secretary of the board are ex-officio members of all committees.

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 College and of the College of Arts and Sciences

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^{*}As a result of building and remodeling operations now in progress a number of administrative offices are at present in temporary locations.

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- Graduate Council—Gamertsfelder, Anderson, Eblin, Hanson, Jolliffe, Krecker, Roberts, Shoemaker, W. J. Smith, Staats, Wray
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CARL GUSTAV GUSTAVSON, Ph.D., Assistant Professor of History

FREDERICK QUENTIN PICARD, M.S., Assistant Professor of Economics

EMMET EDWIN SHIPMAN, Ph.D., Assistant Professor of Photography

EMMEI EDWIN SHIPMAN, III.D., Assistant Projessor of Photography

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JANET PURSER WILSON, A.M., Assistant Professor of Education

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MABEL KATHRYN PHILSON†, M.S., Assistant Professor of Home Economics

HERMAN WILLIAM HUMPHREY, A.M., Assistant Professor of Industrial Arts

A. C. LAFOLLETTE, A.M., Assistant Professor of Dramatic Art and Speech

Josephine Sarah Palmer, A.M., Assistant Professor of Education

Kermit Allan Blosser, A.M., Assistant Coach of Football and Basketball, and Assistant Professor of Physical Welfare

JOHN EDWARD LYNCH, Captain, Infantry, Assistant Professor of Military Science and Tactics

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JOHN ROOD, Artist in Residence

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Sol Matt, B.S.E.E., Acting Instructor in Electrical Engineering

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IRENE MURIEL EVANS, M.S., Technical Assistant in Bacteriology

JANE CROSS HILTY, A.B., Technical Assistant in Anatomy and Physiology

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Patricia Dickey Truschel, B.S., Graduate Assistant in Psychology

RACHEL BERNICE TWENTE, A.B., Graduate Fellow in Home Economics

John Z. Withum, B.S.Ed., Graduate Assistant in Music, Department of Bands

THE UNIVERSITY BRANCHES

ALBERT C. GUBITZ, A.M., Director

CHILLICOTHE BRANCH

THOMAS J. VERNIA, A.M., Assistant Director

PORTSMOUTH BRANCH

RALPH ELLIOTT, B.S.Ed., Assistant Director

ZANESVILLE BRANCH

Ellis B. Miracle, A.M., Assistant Director

THE TRAINING SCHOOLS

THE UNIVERSITY ELEMENTARY SCHOOL

Edith E. Beechel, Ph.D., Principal of the University Elementary School Mabel Beryl Olson, A.M., Supervising Critic in the First Grade Helen Marie Evans*, A.M., Supervising Critic in the Second Grade Agnes Lydia Eisen, A.M., Supervising Critic in the Third Grade

^{*}On leave of absence.

MARGARET VIOLA NELSON, A.M., Supervising Critic in the Fourth Grade
MARY WARD, A.M., Supervising Critic in the Fifth Grade
ESTHER MAE DUNHAM, A.M., Supervising Critic in the Sixth Grade
CONSTANCE HARRY, British Exchange Teacher
JANET PURSER WILSON, A.M., Supervising Critic in the Kindergarten
JOSEPHINE SARAH PALMER, A.M., Supervising Critic in the Kindergarten
CLARA HOCKRIDGE DELAND, A.M., Supervising Critic in Special Education
ALICE MORTON O'SHAUGHNESSY, B.S.Ed., Teacher in Special Education

THE MECHANICSBURG SCHOOL

Edna Emma Felt, A.M., Supervising Critic in the First Grade Margaret Duncan, A.M., Supervising Critic in the Fifth Grade

THE PLAINS ELEMENTARY SCHOOL

DAVID BOOTEN DAVIS, A.B., Head of the Plains Schools, and Supervising Critic in Science

ELVA MYRTLE COOPER, A.M., Principal of The Plains Elementary School and Supervising Critic in the Sixth Grade

Annie Gochnauer, A.M., Supervising Critic in the First Grade
Ebba Louise Wahlstrom, A.M., Supervising Critic in the Second Grade
Irene Constance Elliott, A.M., Supervising Critic in the Third Grade
Alta May Cooper, A.M., Supervising Critic in the Fourth Grade
Martha L. King, A.M., Supervising Critic in the Fifth Grade

THE PLAINS HIGH SCHOOL

DAVID BOOTEN DAVIS, A.B., Head of The Plains Schools, and Supervising Critic in Science

Anna Beryl Cone, A.M., Supervising Critic in Home Economics Louise Jane Diver, A.M., Supervising Critic in English Adda Lenore Maccombs, A.M., Supervising Critic in Latin

THE ATHENS HIGH SCHOOL

OLIVER L. WOOD, A.M., Principal of the Athens High School
LLOYD B. BJORNSTAD, A.M., Supervising Critic in Industrial Arts
WILLIAM M. BRYANT, A.M., Supervising Critic in English
MARY CONNETT, A.M., Supervising Critic in English
ROBERT W. EMMERT, A.M., Supervising Critic in Mathematics
RUTH GIESEN, A.M., Supervising Critic in Home Economics

IRENE HAND, A.M., Supervising Critic in English

MAYME V. JOHNSTON, A.M., Supervising Critic in Commerce

HARRY M. LACKEY, A.M., Supervising Critic in Physical Welfare

EVA V. LAMON, A.M., Supervising Critic in Commerce

HAROLD L. LEE, A.M., Supervising Critic in Mathematics

GLADYS MOORE, A.M., Supervising Critic in Latin

ANNA K. PICKERING, A.M., Supervising Critic in English

WALTER P. PORTER, A.M., Supervising Critic in Biology

CARL H. ROBERTS, A.M., Supervising Critic in History and Government

PERYL S. WAMSLEY, A.M., Supervising Critic in Biology and Commerce

ETHEL M. WOOLF, A.M., Supervising Critic in Art

HELEN DINSMOOR, A.M., Subsidized Teacher in Mathematics

LUCILE DUFFEE, A.M., Subsidized Teacher in Latin and Mathematics

ROBERT L. ESSEX, A.M., Subsidized Teacher in Science

MIRIAM RUTH MCMANIS, A.B., Subsidized Teacher in English

LIBRARY STAFF

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Helen Edith Stocklin, A.M., Subsidized Teacher in English

ANNE CLAIRE KEATING, A.B	$_Librarian$
AMY ALLEN, A.B., B.L.SReference	Librarian
MILDRED CAROLYN CHUTTER, A.B., B.L.SAssistant	Cataloger
Dora Moore, Ph.B	$_Cataloger$
JUNE SOUTHWORTH, A.B., B.SAssistant	Cataloger
CATHERINE NELSON, A.B., B.S.L.SCirculation	$\dot{Librarian}$
CAMILLA MANSON, A.M., B.S.L.SAssistant Reference and Reader	Librarian rs' Adviser
CAROLYN LUCILLE CRAWFORD, M.SChildren's	Librarian
MARY ELISABETH JONES, B.S., A.M.L.SPeriodical Reference	Librarian
ANTJE LOCKE SMITH, A.B., B.S.L.SOrder	Librarian
MIRIAM COCHRAN WATKINS, A.B., B.S.L.SPart-time	Reference Librarian
JANE BOLSTER NIDA, A.B., B.S.L.SAssistant in Order L	epartment

^{*}On leave of absence.

HEALTH SERVICE STAFF

ELLIS HERNDON HUDSON, M.D	Physician
FRANK RICHARDSON MOORE, M.D	Associate Physician
EILEEN A. PHILLIPS, M.D.	Associate Physician
HELEN MOORE, R.N	Nurse
BERTINE SIDDERS LONG, R.N	Nurse
Joan Beshara, R.N	$Nurse$
HAZEL CHLOE REEDER, R.N.	Nurse
BETTY JANE TOLLIVER, R.N	Nurse
FLORENCE JEAN STEELE, R.N.	Night Nurse

GENERAL INFORMATION

HISTORY

Ohio University is the first land-grant college in the United States; it is the first institution for higher learning in all that part of North America from Pennsylvania to the Pacific Ocean and from the Ohio River to the Arctic Ocean. Cutler Hall, as it is now called, was the first building for higher education in the Northwest Territory.

The man who made these "firsts" possible was General Rufus Putnam, a man who never went to college, nor even to school. At the close of the Revolutionary War, Putnam was foremost in the movement to have the vast tracts of the public domain surveyed and settled. He was, perhaps, the first man in the United States to urge Congress to set aside lands for the support of education. This finally resulted in the Ordinance of 1785, in which Congress provided for the township system of survey and the granting of land for purposes of education. Putnam next organized the Ohio Company of Associates, which, in 1787, was ready to purchase land. In May of that year, General Samuel H. Parsons appeared before Congress and submitted his proposition for the purchase of land. This was referred to a committee of five members of Congress who made their report on July 10. In this report, the committee recommended that four townships of land be set aside for the University.

The Reverend Manasseh Cutler succeeded Parsons as representative of the Company. Cutler made several suggestions for the Ordinance providing for the government of the Northwest Territory. The Ordinance was passed on July 13, 1787, with all of Cutler's suggestions included "save one, and it was improved." On July 27, Cutler and Congress came to an agreement as to the terms of a contract. In this contract as authorized, Congress reserved two complete townships of land for the purposes of an University to be located in the center of the purchase. The stockholders approved these terms and on the 27th of October, it was signed by the representatives of the Company and of Congress.

Rufus Putnam next led the first settlers to the Ohio Country where, in 1788, they settled at the mouth of the Muskingum River at the present city of Marietta.

It was not safe to venture to the region of the center of the purchase until after the defeat of the Indians at the hands of Mad Anthony Wayne and the treaty of Greenville which followed. It was in 1795 that Rufus Putnam, with his surveying crew, rowed down the Ohio and up the Hocking River and located the University townships, eight and nine in Range 14.

Late in 1799, Putnam was again on the scene and laid out the town of Athens and the campus for the University. At the same time, he was interested in having a model charter. A letter to Manasseh Cutler brought a reply that there was no college charter in America suitable for the University. Cutler, however, made several recommendations, one of them being that the school should be named the "American University."

On January 9, 1802, the General Assembly of the Northwest Territory passed an act incorporating most of Cutler's suggestions. The name given was "American Western University." Rufus Putnam was made president of the Board of Trustees. But little was done under this act, because Ohio so soon afterwards became a state. On February 18, 1804, the General Assembly passed a law generally considered the charter of Ohio University. In this act, the name was changed from "American Western University" to "Ohio University." The first meeting of the trustees of Ohio University was held in Athens in June, 1804. The governor of the state, Edward Tiffin, presided over the meeting. From that time on, for more than half a century, the governor of the state attended and presided over almost all meetings of the trustees. The income from the two townships of land was sufficient by 1808 for the construction of the Academy Building, a structure 20 feet by 30 feet located where the sundial now stands.

The Reverend Jacob Lindly, Presbyterian minister at Waterford, Ohio, was chosen to preside over the destiny of the infant institution. The doors were opened for the first students on June 1, 1808. In 1810, the trustees introduced a course of study leading to the A.B. degree. It was made up largely of Greek, Latin, mathematics, and natural sciences. The first students to complete the course of study were Thomas Ewing and John Hunter, the members of the Class of 1815. Ewing later served twice in the United States Senate, was Secretary of the Treasury in the cabinet of William Henry Harrison, Secretary of the Interior under Zachary Taylor, and was personal adviser to Abraham Lincoln and Andrew Johnson.

It was not until 1886 that the General Assembly of Ohio supplemented the small income derived from the two townships of land with an appropriation for personal service. At the present time almost all of the university's revenues are appropriated by the General Assembly of the state.

From a two-room, two-story brick building and an opening-day student body of three men, Ohio University has grown until, at the opening of the 1946-47 school year, its 27 principal buildings and 32 auxiliary buildings housed an enrollment of approximately 5,000 students. These students came to the campus from every section of the United States.

⁻Thomas N. Hoover, University Historian

THE SESSIONS

The sessions of the university consist of two eighteen-week semesters and a summer school. The summer school consists of two sessions: a regular eight-week session, and a three-week post session. A more extended reference to the summer school will be found on page 145.

The eight-week session of the 1947 Summer School will open on June 16 and close on August 9. It will be followed by a post summer session, opening on August 11 and closing on August 29.

The first semester of the 1947-1948 school year will open on September 15, 1947, and close on January 31, 1948. The second semester will open on February 2 and close with formal commencement exercises on June 7, 1948. "See University Calendar."

LOCATION

Ohio University is located in the City of Athens, a community in southeastern Ohio with a population of 7,676, which is the county seat of Athens County. Athens is conveniently accessible by automobile on U. S. Routes 33 and 50, and State Route 56. The city is served by the Chesapeake and Ohio, New York Central, and Baltimore and Ohio railroads. North and south bus service is provided by the Valley Greyhound Lines; east and west service, by the Capitol Greyhound Lines. Airplane connections with the Cleveland, Columbus, and Cincinnati airports are available through a local air service.

BUILDINGS AND GROUNDS

Ohio University's physical plant, consisting of 27 principal buildings, 32 auxiliary buildings, and 76 acres of land, is valued at more than \$5,660,000. This does not include the 41 temporary dormitories and dwelling units erected for the housing of veterans and veterans' families, nor the Ohio University Airport of 95 acres or the University Farm of 333 acres.

The Campus or "College Green" was laid out from time to time between 1800 and 1804 in compliance with the terms of a Resolution of the General Assembly of the Territory of Ohio passed in 1799. It now differs materially from its original plan, changes and enlargements having been made at various times between 1813 and 1844, and in comparatively recent years.

Because of the rapid growth of enrollment since the turn of the century it has been necessary for the university to acquire additional land and properties as sites for new buildings. These buildings are located adjacent to or near the campus.

On the main campus, the present boundaries of which were fixed in 1844, are located 11 buildings.

At the northwest corner of the campus is the Alumni Gateway,

erected in 1915 by the alumni in honor of the one-hundredth anniversary of the first graduating class of the university.

Manassah Cutler Hall (30*), the oldest building in the Northwest Territory erected for the purposes of higher education, was known in its early days as "The College Edifice" and later as the Central Building. Given its present name for one of the founders of the university, its construction was begun in 1816 and completed in 1818. Cutler Hall and the nearby "Wings," of similar style, comprise an interesting unit of early American architecture. In 1888 the building was remodeled, many changes, both internal and external, being made. A complete restoration to its early-day appearance was begun late in 1946 and is expected to be completed by July, 1947. In the building will be located the offices of the president of the university, the assistant to the president, and the deans of the Colleges of Arts and Sciences, Education, and Fine Arts. In addition there will be other administrative offices and some small seminar rooms.

WILSON HALL (29) was erected in 1837 and for more than a century was known as East Wing. It was renamed, September 23, 1939, in honor of the Rev. Dr. Robert G. Wilson, third president of the university. The first floor is occupied by the Service Bureau. The University Extension Division, the Alumni Office, and the office of the university editor are on the second floor. The department of philosophy and the speech clinic are on the third floor.

McGuffey Hall (28), originally known as West Wing, was erected in 1839. It is identical with Wilson Hall in the unit of three old buildings. It was renamed, September 23, 1939, in honor of the Rev. Dr. William H. McGuffey, fourth president of the university and author of the famous "Readers" that bear his name. In McGuffey Hall are the offices of the director of admissions and university examiner, the dean of the University College, the dean of women, the auditor of student funds, the director of the University Branches, the university controller, conference rooms, and headquarters for the Y.W.C.A. and the Women's League.

Noted for their size, beauty, and traditional interest are the "McGuffey Elms," a row of trees extending across the entire front of the campus, which were planted by William Holmes McGuffey during his presidency and are now well over 100 years old.

The EDWIN WATTS CHUBB LIBRARY (22), erected in 1930, was named in honor of a former dean of the College of Arts and Sciences.

The ALUMNI MEMORIAL AUDITORIUM (23), which cost \$350,000, was made possible by the contributions of alumni and friends of Ohio University and by a special appropriation of the Ohio Legislature. It has a seating capacity of 2,811.

EWING HALL (31), named in honor of Thomas Ewing of the Class of 1815, contains the offices of the registrar, the treasurer, and the chief

^{*}See map and key in front of catalog.

Buildings 29

engineer of the university, the office of the dean and the classrooms of the College of Commerce, and the office of the director and the classrooms of the School of Journalism.

ELLIS HALL (33), named for Dr. Alston Ellis, tenth president of the university, was the first building erected by the State of Ohio for the purpose of training teachers.

The Hall of Fine Arts (32), is an ivy-covered building once known as the "Old Chapel." The auditorium on the first floor is used for debate and oratory by the School of Dramatic Art and Speech. The studios on the second floor are occupied by the department of architecture of the School of Painting and Allied Arts. In the basement of the building are to be found the modern, well-equipped laboratories of the department of photography.

On the ground floor of CARNEGIE HALL (34) are the headquarters and supply rooms of the Reserve Officers' Training Corps units. The second and third floors are occupied by the departments of psychology and mathematics. In this building, also, are the offices of the supervisor of the University Testing and Vocational Counseling Service and the Veterans Administration vocational appraiser.

The Women's Gymnasium (35), built originally for the physical activities of both men and women, has been used for women exclusively since 1924. The basement of the gymnasium contains a swimming pool which is used by both men and women.

BOYD HALL (36), is a dormitory for women students. It was named for Miss Margaret Boyd, of the Class of 1873, first woman graduate of Ohio University.

On East Union Street, north boundary of the campus, are the STUDENT CENTER BUILDING (7), which is the activity center for students; HOWARD HALL (8), a dormitory for women; the PRESIDENT'S HOME (9); the UNIVERSITY ELEMENTARY SCHOOL (11), a laboratory school for the training of teachers; the HOME ECONOMICS MANAGEMENT HOUSE AND NURSERY (10); MEN'S FACULTY CLUB (4); and O'BLENESS COTTAGE (3). The last named is a residential unit for women students.

The AGRICULTURE AND HOUSEHOLD ARTS BUILDING is located on University Terrace, immediately east of the campus. In this building the University Student Health Service maintains an outpatient clinic, an emergency service, and a 25-bed infirmary on the ground floor. The School of Home Economics occupies the first floor, the department of botany the second floor, and the department of agriculture the third floor. The Nurses' Home (40) and the Greenhouse (41) are at the rear of the Agriculture and Household Arts Building. Just north of the "Ag" Building is another Home Economics Management House (37). An appropriation of funds has been made by the State Legislature for the erection of a large dormitory on the sites of the Home Economics Practice House and Jones Cottage (56), the latter a residential unit now occupied by women students.

On University Terrace, just southeast of the main campus, are the Men's Dormitory (45) and two cottages, Pearl Street (46) and Pierce (47). The dormitory, composed at present of four units, Dana, Evans, Dunkle, and Gordy Halls, will have four more units and will be quadrangular in shape when finally completed. The cottages are occupied by men students.

Across the street from the Men's Dormitory are the Music Hall Annex (44), containing practice rooms for both vocal and instrumental music; Hoover Cottage (43); and Worstell Cottage (61). The cottages are residential units.

On Park Place, south boundary of the campus, is MUSIC HALL (42), a building providing studios, classrooms, and an auditorium for the School of Music.

On South Court Street, west boundary of the campus, are LINDLEY HALL (26), a dormitory for women; Court Cottage (21), Slattery Cottage (27), and Sloane Cottage (52), student residential units; and the Legion Apartments (51), now occupied by married veterans and their families.

On President Street, west of the campus, are to be found the Men's Gymnasium (25); Super Hall (24), housing the departments of aviation, civil engineering, electrical engineering, mechanical engineering, industrial arts, and physics; Science Hall (18), housing the department of zoology and the university mailing room; the new Chemical and Research Laboratory Building (19); and President Street Cottage (20).

On the western end of President Street, on the sites now occupied by the University Laundry (14), Garage (15), and Sprague Hall (16), a residence for men, will soon be erected an Engineering and Science Building.

On College Street, a street running north and south from the campus, will be found the STUDENT CENTER BUILDING ANNEX (5), recently remodeled into apartments for veterans; WOMEN'S FACULTY CLUB (6); LASH COTTAGES (53); and PRESTON COTTAGE (54). The cottages are housing units for students.

VETERANS' VILLAGE, located on College Street in the rear of the Student Center Building and the Lash Cottages, is comprised of 25 trailer units which accommodate 50 families.

PALMER HALL (1) is a university-leased dormitory for men located on the corner of South Congress and West Washington Streets.

The University Service Building (12) and the Heating Plant (13) are located on West Union Street. The Service Building is a three-story structure which houses the maintenance departments and provides storage space for supplies of all types.

The ASTRONOMICAL OBSERVATORY, not shown on the map, is situated on North Hill about a mile from the university. The telescope, a reflector type with a 20-inch aperture, was presented to the university in 1936 by Professor A. H. Carpenter, retired, of Illinois Institute of Technology, an alumnus of the university.

LOWER CAMPUS

The Lower Campus, to the east of the main campus (see map), has been developed with the aid of the Federal Public Housing Administration. Twenty-three dormitories for single men have been constructed which house a total of 593 men. A cafeteria (59) has been erected in this new area which is large enough to accommodate all of the men living on the lower campus.

The Schloss Apartments (57), also located on the lower campus, are occupied both by students and members of the faculty, while two Steel-Craft buildings (58) serve as temporary quarters for men students.

New and permanent-type buildings are contemplated for this area in the university's long-range building plan.

ATHLETIC FIELDS

The Athletic Fields, comprising 50 acres, are located across the Hocking River on the east side of Richland Avenue. There is an excellent baseball field; Ohio Stadium, seating 14,000 persons, with a football gridiron and running track; tennis courts (49), and practice fields. In one corner of this area is located the Animal House (48), a building for the housing of animals used in the laboratories of the departments of zoology and psychology.

UNIVERSITY AIRPORT

The Ohio University Airport of 95 acres (see small map) is located approximately two miles from the campus on U. S. Route 50, east of Athens. The field has a runway 4,000 feet in length, three hangars, and an administration building. The hangars provide space for plane storage, a repair station, a Link Trainer room, and a pilots' ready room. The field is equipped with temporary runway lights for night flying. More than 25 aircraft of different types are used in primary and advanced flight training courses.

UNIVERSITY FARM

The University Farm of 333 acres (see small map) is located on U. S. Route 50, five miles southwest of Athens. Experimental work is carried on with crops (primarily grain and feed) and with livestock (dairy and beef cattle, hogs, and poultry). On the farm are a two-family home, two large barns, a poultry house, and numerous small buildings.

EDWIN WATTS CHUBB LIBRARY

The Edwin Watts Chubb Library contains 160,323 volumes and receives 809 periodicals annually. The building has reading and seminar rooms with a seating capacity of 600. A seminar room and stack carols are set apart for the use of graduate students. The stacks, consisting of six floors, and the periodical and reference rooms will accommodate 250,000 volumes. The library is a designated depository of United States documents which are classified and catalogued by the Dewey system.

In the art gallery are hung exhibitions loaned by art museums, dealers, and artists. There is also a permanent collection of paintings owned by the university.

An unusual feature of the library is the juvenile room which is open to the children of the town and which cares for the needs of the public schools. This feature gives student teachers an opportunity to become familiar with a well chosen collection of children's literature and serves as a model for the equipment and administration of a children's library.

The courses in school library administration are given for students who are planning to be teachers and part-time librarians. These courses may be taken as a minor in education.

UNIVERSITY MUSEUM

The University Museum houses more than 80,000 specimens and is the oldest recognized museum in the state and oldest west of the Appalachian Mountains. It was founded about 1800 and has among its earliest historical collections specimens from Dr. S. P. Hildreth's famous collection of rocks and minerals dated 1815 and 1825.

The museum contains numerous rare objects of archaeological and ethnological value given to it by returning world travelers and local collectors. Many science collections have gravitated to the museum through the efforts of local groups, societies, individuals, and activities. These have yielded series of fossils, rocks, minerals, plants and animals. In addition, there are on display many products of great historic and economic interest.

The university museum was recently transferred from the Agriculture and Household Arts Building to the basement of Alumni Memorial Auditorium where new displays are being organized and it is hoped that portable study collections will soon be available for circulation in the schools in the Athens area. Students and teachers are invited to use the museum facilities.

The museum may be reached by taking the stairs to the right of the main entrance to the auditorium and is open on the following schedule: Monday through Thursday, 1 to 4 p.m.; Saturday, 9 a.m. to 5 p.m.; and Sunday, 1 to 4 p.m. The museum is not open on Friday.

Among the museum's more spectacular collections and displays are





the Elinore Wilson Gordon art collection, which includes many fine carvings from Thailand, Bali, and Africa as well as other pieces of artwork, and the "Alter of Beauty," reputed to be the finest display of its kind, which is dedicated to its founder, the late Dr. W. A. Matheny.

The Gordon collection is on display in the basement of the Edwin Watts Chubb Library where it may be viewed by the public.

BUREAU OF APPOINTMENTS

Through the Bureau of Appointments, located in the Student Center Building, the university maintains for its graduates and alumni a placement service for recommendations to positions in teaching, business, and industry. No charge is made for this service for the first year after graduation. Alumni then pay an incidentals fee of \$2.00 for each registration of one year of placement service.

The supervisor of the bureau and the office personnel are available at all times for discussion of vocational plans with students and alumni.

The bureau maintains and promotes all possible connections with prospective employers for the benefit of persons seeking initial placement and for those looking toward advancement to better positions.

TESTING AND VOCATIONAL COUNSELING SERVICE

The University Testing and Vocational Counseling Service is a central agency serving the university in the following ways:

- (1) The results of all tests prescribed by the university testing committee and regularly administered to all new students are forwarded to administrative offices. Students may learn the results of such tests, and counselors, advisers, and other faculty members may receive a summary for the individual student's record of tests upon request made to the supervisor of the Testing and Vocational Counseling Service.
- (2) Additional tests and other diagnostic devices are administered in individual cases at the request of faculty members, counselors, administrative officers, and by the supervisor of the service in conference with the student.
- (3) Vocational guidance counseling is available to students. Such service is based on a careful survey and analysis of aptitudes, abilities, interests and achievement with a view to having the student select educational and occupational objectives whose requirements are in line with the student's capacities. Students are encouraged to seek information from sources such as deans of colleges, faculty advisers, and other persons and agencies interested in orienting the student in an educational program.
- (4) Research is conducted to determine the significance of individual case data in relation to academic achievement and vocational adjustment.

ALUMNI OFFICE

The Alumni Office, a central records office and service agency, located in Wilson Hall, is maintained jointly by Ohio University and the Ohio University Alumni Association. The work of the office is supervised by the alumni secretary, who is the administrative head of the alumni association.

. The maintenance of biographical and address records of graduates and former students is a primary function of the office. The Ohio Alumnus, published monthly from October to June, is mailed to all members of the Alumni Association paying the annual membership fee.

The Ohio University Alumni Association was established June 22, 1859, and any person who has attended the university for at least one year is eligible for membership in it. The association is governed by a group of four principal officers and an executive committee of seven members. Local groups, known as chapters, have been organized in cities, counties, and other geographical areas where the number of graduates and former students is large enough to warrant or support such groups.

OHIO UNIVERSITY FUND, INCORPORATED

The Ohio University Fund, Inc., a non-profit organization, was incorporated October 11, 1945, under the laws of the State of Ohio for the following purposes:

"The support of an educational undertaking, to-wit, The Ohio University, and to that end to receive and hold in trust any property real and personal given, devised, bequeathed, given in trust or in any other way made over to the said Corporation for the use or benefit of The Ohio University, or of any student or professor therein as such, or any dependent thereof, or for the carrying on at said institution of any line of work, teaching or investigation, which the donor, grantor, or testator may designate; to invest or disburse all moneys so received, and generally to care for, manage, administer, and control all such property so received, and to carry out the wishes and to see that the funds and property so received are applied to the uses specified by the donors; or, in case the gift, devise or bequest is a general one, then to such uses as research, scholarships, travel, books and other library purposes, buildings, beautification of grounds and such other uses as may be agreed on by the Board of Trustees."

The Fund is governed by a board of trustees of five members, chosen to give balanced representation to the group principally concerned with the success of the Fund. Two members of the governing board are members of the board of trustees of the university. Two members are drawn from the administration of the university, one of whom is the president. The fifth member represents the Ohio University Alumni Association.

Members representing the board of trustees of the university are elected for three years; those representing the administration, for five years. The alumni member serves for one year and is ineligible for re-election in order that fresh viewpoints among the alumni may be frequently brought to the attention of the governing board.

Contributions should be made payable to The Ohio University Fund, Inc., and sent to the Office of the Associate Director, Ohio University, Athens, Ohio. The associate director will be happy to answer inquiries relating to the objects and management of the Fund.

PUBLIC RELATIONS OFFICE

The university maintains a public relations office for the following purposes: to disseminate interesting and reliable information on all phases of university life to prospective students and alumni; to give public school officers and prospective students information about the educational facilities of the university through personal interviews, literature, and correspondence; to provide educators, educational agencies, and other organizations with statistical and other information about the university; and to arrange for the availability of university talent and services to high schools, civic groups, alumni chapters, and other organizations, in order that good will toward the university may be furthered.

NEWS BUREAU

Supervised by the director of publicity, the News Bureau prepares releases concerning all branches of the university, including intercollegiate athletics, and disseminates them to the proper media for publication. Assistance is given in writing material for various university publications and bulletins. Liaison is maintained with other university and college publicity departments. Visiting members of the press and radio are invited to make the News Bureau their headquarters when visiting Ohio University, and every aid is given in securing data desired.

STUDENT ACTIVITIES AND ORGANIZATIONS

CAMPUS AFFAIRS COMMITTEE

The committee authorized by the administration to handle and conduct all extracurricular student affairs is known as the Campus Affairs Committee. This committee consists of eleven members, six of whom are members of the faculty appointed by the president, five of whom are students. Three of the students automatically become members by virtue of position—the president of the Men's Union, the president of the Women's League, and the president of the Student Council. Of the two other student members, the Senate of the League appoints one woman and the Men's Union Planning Board one man. The standing committees of the Campus Affairs Committee are convocations and the grill execu-

tive board. The Women's Selection Board and the Men's Union Planning Board serve as the channel through which recommendations are made to the Campus Affairs Committee for selection of officers of the Men's Union and the Women's League. The Women's Selection Board, upon request of the Y.W.C.A. and the college unit of the American Red Cross, also serves as the channel through which recommendations are made to the respective executive committees for the officers of these organizations. The Campus Affairs Committee receives and allocates the activities fee (except that designated for athletics), and has jurisdiction over all matters which involve the university's relationship to student affairs. It has delegated to the Student Council the planning and execution of the on-campus student life program with the dean of men and the dean of women as advisers. The dean of men and the dean of women serve as co-chairmen of the Campus Affairs Committee.

STUDENT GOVERNMENT ASSOCIATIONS

THE STUDENT COUNCIL. The Student Council is composed of representatives of the following:

Women's League

Men's Union

Panhellenic Council

Interfraternity Council

Women's Independent Association

Men's Independent Association

American Red Cross

Women's Recreation Association

Campus Religious Council

Veteran's Club

The Women's League and the Men's Union each have three representatives, in each case one of the three being president of the organization, on the Student Council, while the remaining organizations have one representative, each. The dean of men and the dean of women and a representative of the *Ohio University Post*, student newspaper, are exofficio members of the council.

The president and vice-president of the Student Council are elected by a campus ballot election and serve from February to February of each year. The council operates under a constitution of its own which has been approved by the Campus Affairs Committee. It has the delegated authority to consider, promote, and put into effect all projects which pertain to student activities at the Student Center and on the campusat-large.

THE WOMEN'S LEAGUE. The Women's League, the all-women's organization, has an active membership of every regularly enrolled woman student. The Women's League office and club rooms are in McGuffey Hall. The activities sponsored consist of a Freshman Women's Party, dances, receptions, teas, Co-ed Prom, and Mother's Weekend. Each year, the Women's League awards a \$25 cash prize to the woman with the highest scholastic average extending over two semesters.

THE MEN'S UNION. The Men's Union is an organization to which every regularly enrolled male student automatically belongs. Each man

is entitled to all the privileges and recreational facilities provided in the Student Center without additional cost. The Men's Union sponsors the Registration Hop in September, the annual Rodeo, Dad's Weekend during the football season, a varsity show, homecoming activities, and many other projects. Throughout the year the Men's Union also sponsors activities designed to be broad enough in scope to include the interests of every man on the campus. Each semester the Men's Union awards a gold medal to the man with the highest scholastic standing.

THE STUDENT CENTER

The Student Center provides meeting places for various organizations of the men and women, and houses the offices of the student publications. The building includes a ballroom, a game room with billiard tables and ping pong sets, a men's lounge, and a room that is available for banquets. The Student Grill, located in the Student Center, provides meals and fountain service, and is the most popular meeting place on the campus for the men and women of the university.

RECREATION

The Division of Physical Welfare directs the intramural athletic program at Ohio University. This program includes all competitive and physical recreational activities that are sponsored for men and women students.

Present facilities at Ohio University for intramural athletics include a gymnasium for men and a gymnasium for women. The men's athletic fields are equipped to handle six softball games or four touch-pass football games at one time. The women's athletic field is available for intramural softball, hockey, and soccer. Eleven tennis courts are used interchangeably in the men's and women's departments. The Women's Recreation Association has a cabin in the wooded hills outside of Athens that is used by university church groups, honor societies, and specialized club groups for outing activities.

The following intramural activities are offered: touch football, basketball, volleyball, softball, tennis, badminton, bowling, horse shoes, wrestling, boxing, field days, soccer, hockey, swimming, and ping pong.

The department of intercollegiate athletics directs the varsity sports program. The program consists of football, baseball, basketball, track, tennis, swimming, and wrestling.

PUBLICATIONS

The Ohio University Post is the student newspaper. It is published twice each week. The Athena, a yearbook published under student editorship, appears toward the latter part of the spring semester.

FINE ARTS COUNCIL

The Fine Arts Council was organized in 1942 to establish and develop the Fine Arts Scholarship and Loan Fund and to encourage worth-

while projects in the fine arts. The Council is made up of two delegates from each of the seven honorary fraternities in the Collège of Fine Arts. Since its inception, the Council has sponsored a campus-wide production of Jerome Kern's "Roberta," George Gershwin's "Girl Crazy," Vincent Youman's," No, No, Nanette," and the annual Ohio Valley Oil and Water Color Show. The Council conducts a campus-wide search for talent during each fall semester.

DRAMATIC AND FORENSIC ORGANIZATIONS

THE UNIVERSITY THEATRE. The University Theatre is a theatrical organization which serves both the university and the community by promoting the cultural and entertainment values which the legitimate theatre provides through participation of audience and performers. Production details of the presentation of five plays are managed by the students enrolled in courses in the School of Dramatic Art and Speech. Casts are chosen at public tryouts from students, faculty, and townspeople.

THE UNIVERSITY PLAYSHOP. The University Playshop is an experimental theatrical producing group principally comprised of student directors, actors, and technicians, who are enrolled in courses in the School of Dramatic Art and Speech. However, roles in Playshop productions are open to all students of the university. Bills of one-act plays, new scripts, and historical plays are presented at frequent intervals during the academic year.

VARSITY INTERCOLLEGIATE DEBATE. Ohio University is an active member of the Ohio Intercollegiate Debate Association for men and for women. Participation in a program of about fifteen debates is in preparation for a tournament which decides the state championship. The group also schedules about twenty debates before high schools in the various parts of the state.

FRESHMAN DEBATE. Freshman debate is sponsored for freshmen who may or may not wish to enroll in the regularly scheduled debate classes.

ORATORY CONTEST. Ohio University is an active member of three state oratory associations. In February the State Oratorical Contest for Men is held, followed in March by the State Oratorical Contest for Women, and in May by the State Peace Contest in which men participate.

INTERPRETATION CONTEST. Every year an average of four interpretation contests in poetry and prose are held for men and women. The State Interpretation Contest for women is held in connection with the State Oratorical Contest.

MUSIC ORGANIZATIONS

Membership in any music organization is based on competitive trials.

THE UNIVERSITY MEN'S GLEE CLUB. Among the traditional activities of the club is the annual serenade given during the Mother's Weekend, a spring homecoming. Tours and radio broadcasts are scheduled regularly.

THE VARSITY MALE QUARTET. The quartet is chosen from the membership of the University Men's Glee Club. Extensive opportunities for public appearances are given by demands from high school assemblies, service clubs, and churches.

THE UNIVERSITY WOMEN'S GLEE CLUB. The club is well known for the quality of its work and its activities on the campus. It gives several programs on the campus and occasional trips are taken in the spring.

THE UNIVERSITY CHOIR. The University Choir is composed of the combined glee clubs. The repertoire is selected from choral literature both accompanied and *a cappella*.

THE UNIVERSITY BANDS. The University Bands are composed of two highly functional musical organizations—the Symphonic Band, which maintains a well-balanced instrumentation of selected musicians, and the Varsity Band, which serves as a recreational-laboratory group. Members of both bands offer concerts and performances in the interests of musical culture and entertainment and for the enhancement of institional spirit. Membership with credit is open to all men and women of the various schools and colleges of the university.

THE UNIVERSITY SYMPHONY ORCHESTRA. At present the orchestra has a membership of fifty-five, and because of talent and training many of its members play an important part in the state intercollegiate orchestral contests.

THE SALON ORCHESTRA. This orchestra is a group of instrumentalists organized for the purpose of studying compositions for small orchestras; radio ensemble techniques; and music for the theatre.

THE PREP FOLLIES. Under the direction of the Y.W.C.A., the pledges of the sororities participate in an annual original theatrical production.

THE DANCE CONCERT. The Dance Concert is an annual production of compositions in dance form which is presented by the Dance Clubs of Ohio University.

RELIGIOUS ORGANIZATIONS

The Y.W.C.A. is the campus religious organization for women. Its program includes social service activities in the Children's Home, County Infirmary, Hospital for the Insane, Sheltering Arms Hospital, mining centers in Athens County, and for shut-ins and colored children in Athens. Worship services, lectures, discussions, social functions, etc., are also a part of the program.

The religious welfare and interests of all students are fostered by the various organizations sponsored by the churches of Athens. The Methodist Church sponsors the Wesley Foundation with its divisions of Delta Sigma Theta, a national organization for men, and Kappa Phi, a national organization for women. The Presbyterian Church sponsors the Westminster Fellowship with Phi Chi Delta, an organization for women. The Christian Church sponsors the Disciples Foundation with

the national organization for women, Kappa Beta. The Catholic Church, assisted by a group of faculty members, sponsors the Newman Club for men and women. The First Church of Christ, Scientist, sponsors a Christian Science Club, and the Episcopal Church sponsors the Canterbury Club. Although there is no Lutheran Church or Jewish Synagogue in Athens, a Lutheran Student Association and a Hillel Foundation of Ohio University are sponsored for these groups, respectively. The Foundation maintains approved club rooms for its members.

Representatives of the religious organizations constitute the Campus Religious Council. This council serves as a coordinating agency for the programs of the various groups listed, and initiates programs of an interfaith nature upon the campus. The council is composed of the adult advisers and two student representatives from each group, plus a representative from the Zion Baptist Church.

SCHOLASTIC AND SOCIAL ORGANIZATIONS

HONOR SOCIETIES

Kappa Delta Pi, organized at the University of Illinois, Urbana, Illinois, in 1911, and established at Ohio University in 1923, is a society for the recognition of high scholastic attainment. Membership is open to students who plan to teach or engage in other types of educational service.

Phi Beta Kappa, organized at the College of William and Mary, Williamsburg, Virginia, in 1776, and established at Ohio University in 1929, is a society for the recognition of high scholastic attainment. Membership is open to students who meet the scholastic requirements and who have done at least seventy-five per cent of their work in courses which the fraternity regards as non-professional and non-vocational.

Kappa Tau Alpha, organized at the University of Missouri, Columbia, Missouri, in 1910, and established at Ohio University in 1929, is a society for the recognition of scholastic attainment in the field of journalism particularly, but men and women eligible for membership must attain high scholarship in their general university work as well. Chapters of the society are limited to Class A schools and departments of journalism.

Phi Eta Sigma, organized at the University of Illinois in 1923, and established at Ohio University in 1936, is a society for the recognition of high scholastic attainment by freshman men.

Alpha Lambda Delta, organized at the University of Illinois in 1924, and established at Ohio University in 1941, is a society for the recognition of high scholastic attainment by freshman women.

CAMPUS LEADERSHIP SOCIETIES

Mortar Board, organized at Syracuse, New York, in 1918, and established at Ohio University as Cresset Chapter in 1938, is a society for senior women who have attained recognition in scholarship, leader-

ship, and service. The organization on the Ohio University campus meets the requisites of the honor society division.

Phoenix, established at Ohio University in 1931, is an organization for junior women who have attained recognition in activities, service, and scholarship.

Torch, established at Ohio University in 1913, is a local organization primarily for senior men who have attained recognition in activities.

J Club, established at Ohio University in 1930, is a local organization for the recognition of junior men.

PROFESSIONAL SOCIETIES

Accounting*	
AgricultureClassical Languages	
Dramatic Art	National Collegiate Players
Education	Pi Theta
Engineering*	Pi Epsilon Mu (local)
French	L'Alliance Française
Home Economics	Phi Upsilon Omicron
Industrial Arts	Epsilon Pi Tau
Journalism	
Journalism	Sigma Delta Chi (men)
Music	Sigma Alpha Iota (women)
Music	Phi Mu Alpha (men)
Painting and Allied Arts	
Psychology	
Sociology	
Speech	

RELIGIOUS SOCIETIES

Campus Religious Council (representatives of all religious groups)
Christian Science Club
Delta Sigma Theta (Methodist men)
Disciples Foundation (Christian Church)
Canterbury Club (Episcopal)
Hillel Foundation (Jewish)
Kappa Beta (Christian women)
Kappa Phi (Methodist women)
Lutheran Student Association
Newman Club (Catholic)
Phi Chi Delta (Presbyterian women)
Wesley Foundation (Methodist)
Wesley Players (Methodist)
Westminster Fellowship (Presbyterian)

^{*}Inactive during current year.

SPECIAL INTEREST SOCIETIES

Alpha Phi Omega (scout fraternity) American Institute of Electrical Engineers

Band
Botany Club
Camera Club
Chemistry Society
Childhood Education Club

Classical Club
Dance Club (women)
Der Deutsche Verein
Dolphin Club

Home Economics Club Industrial Arts Club Le Cercle Francais Ohio University Engineers Ohio University Radio Club Ohio University Rifle Club (men)
Ohio University Rifle Club (women)
Porsbing Pifles

Pershing Rifles
Phi Sigma Epsilon
Philosophy Club
Public Affairs Club
Quill Club

Scabbard and Blade Footlighters

Varsity O

Women's Recreation Association

Young Men's Christian Association

Young Women's Christian
Association

SOCIAL SOCIETIES

INTERFRATERNITY COUNCIL (MEN)

Beta Theta Pi—Beta Kappa Chapter, 1841
Delta Tau Delta—Beta Chapter, 1862
Phi Delta Theta—Ohio Gamma Chapter, 1868
Sigma Theta Gamma (local), 1909
Phi Kappa Tau—Beta Chapter, 1917
Theta Chi—Alpha Tau Chapter, 1925
Tau Kappa Epsilon—Alpha Beta Chapter, 1927
Phi Kappa—Psi Chapter, 1929
Pi Kappa—Psi Chapter, 1929
Pi Kappa Alpha—Gamma Omicron Chapter, 1929
Alpha Phi Delta—Beta Zeta Chapter, 1933
Phi Epsilon Pi—Alpha Rho Chapter, 1933
Trowel Club (local), 1946
Sigma Beta (local), 1947

PANHELLENIC COUNCIL (WOMEN)

Pi Beta Phi—Ohio Alpha Chapter, 1889 Alpha Gamma Delta—Zeta Chapter, 1908 Alpha Xi Delta—Pi Chapter, 1911 Chi Omega—Tau Alpha Chapter, 1913 Alpha Delta Pi—Xi Chapter, 1914 Zeta Tau Alpha—Alpha Pi Chapter, 1922 Phi Mu—Delta Delta Chapter, 1927 Phi Sigma Sigma—Beta Delta Chapter, 1941 Theta Rho (local), 1946

INDEPENDENT GROUPS

Men's Independent Association, 1938 Women's Independent Association, 1946

STUDENT GOVERNMENT ASSOCIATIONS AND CLASS ORGANIZATIONS

Men's Union Women's League Student Council Senior Class

PRIZES AND AWARDS

- A. A. ATKINSON AWARDS. Awards of \$10 as a first prize and \$5 as a second prize are given to the best senior students majoring in the department of electrical engineering, and an award of \$10 is given to the best senior student majoring in the department of physics. Two committees, composed of the teaching staff of each department, select the candidates for the prizes and are governed by the following rules:
- 1. Scholarship in all courses for the sophomore, junior, and senior years.
- 2. Intellectual alertness and keenness of insight as determined by the instructors in the students' major fields.
- 3. Originality, initiative, intellectual honesty, and personal industry.
- 4. Correctness and facility in the use of spoken and written English.
- 5. Character, personality, leadership, and other characteristics likely to promote success in the students' fields.

ALLIANCE FRANCAISE PRIZE. The Alliance Francaise offers each year a prize of \$15 to the student who has the highest record in advanced French (i.e., the greatest number of points in courses beyond 102), provided that the minimum requirement of 18 hours with an average above 3.600 in these courses has been attained. A student who has once won the prize will not be eligible for consideration.

ALPHA DELTA PI SCHOLARSHIP PRIZE. Xi chapter of Alpha Delta Pi offers each year a prize of a twenty-five dollar War Bond to the sophomore girl enrolled at present who has attained the highest scholastic average after completing three semesters of work. Any sophomore girl is eligible to compete for the prize.

ALPHA LAMBDA DELTA AWARD. The national chapter of Alpha Lambda Delta, a society for the recognition of high scholastic attainment of freshman women, makes an annual award to the four-year senior woman who has the highest accumulative average.

CHI OMEGA ECONOMICS PRIZE. Tau Alpha Chapter of Chi Omega, in accordance with the national policy of the fraternity begun in 1920, offers each year a prize of \$25 to the girl who does the highest grade of work in the department of economics. Any girl in the university is eligible to compete for the prize.

CUYAHOGA COUNTY BOBCAT CLUB AWARD. The Bobcat Club of Cuyahoga County, Ohio, makes an annual award on Honors Day to a freshman boy who stands scholastically in the five highest from Cuyahoga County. The final selection of one of the five highest is made by the Scholarships Committee acting with the dean of men.

DELTA PHI DELTA AWARD. The Ohio University chapter of Delta Phi Delta, national art fraternity, makes an annual award to the freshman student doing the most outstanding work in the space arts.

DICK DE LA HAYE HUGHES BAND AWARD. The Dick De La Haye Hughes Memorial Band Fund was established by Mr. and Mrs. M. D. Hughes, Athens, Ohio, in memory of their son, a former student and member of the university band. The annual income from the fund, amounting to \$60, is awarded annually to the member of the band of junior rank who is most outstanding in musicianship, band citizenship, leadership, and for recognized initiative in furthering the interest of the organization. The award may be divided between two juniors, or awarded to a senior, provided no junior is eligible. A student who has once won the award will not again be eligible to receive it.

EMERSON POEM PRIZE. W. D. Emerson, of the Class of 1833, bequeathed to the board of trustees of Ohio University the sum of \$1,000. The interest on this amount is awarded every second year to the students or graduates of Ohio University who write the best original poems. The award is divided into three prizes of \$60, \$40, and \$20. The judges are three persons, appointed by the president of the university and the chairman of the department of English, who judge independently of each other.

The following regulations must be observed in every particular:

- 1. The competitors must be graduates of the university or students in attendance.
- 2. The poems must be in the hands of the president of the university before the opening of the second semester of 1948-1949.
 - 3. Only one poem is to be submitted by each competitor.
 - 4. Each contestant shall submit three copies.
- 5. The poem shall be typewritten on paper eight and one-half by eleven inches, written only on one side, and marked with a pseudonym or character.
- 6. The pseudonym or character accompanied by the name and address in a sealed envelope shall be sent to the president of the uni-

versity. The envelopes will not be opened until the decision of the judges has been made.

The winner of the first prize is not eligible for a second competition.

EVANS LATIN PRIZES. The Dafydd J. Evans Latin prizes consist of a first prize of \$25 and a second prize of \$12.50 to be awarded each year.

The considerations in determining the awards are ability to read Latin and a command of the structural side of the language, together with a knowledge of Roman history, literature, and life. Students are not ordinarily considered for the awards before they enter upon the second semester of junior-senior Latin.

The committee consists of the members of the staff in the department of classical languages and the alumni secretary.

FRANK B. GULLUM AWARD. An award of \$25, known as the Frank B. Gullum Award for Scholastic Achievement, is made annually by the undergraduate chapter of Delta Tau Delta fraternity to the male student who has made the highest scholastic record during his first two semesters at Ohio University. There are certain qualifying restrictions with regard to the minimum number of hours of credit earned at the university and enrollment, or early eligibility for enrollment, in a degree-granting college.

HORN SENIOR COMMERCE PRIZE. Mr. Clarence H. Horn, of Athens, Ohio, conducted a senior course in "Accounting for Coal Production and Distribution" for the College of Commerce for a number of years before his death on November 26, 1927, and established a trust fund from the fees he received for this service. The income from the fund, supplemented by contributions from Mrs. Sarah M. Horn and Robert H. Horn, is paid annually to the Bachelor of Science in Commerce degree senior who has the highest scholastic average in commerce subjects. The prize amounts to \$50.

JOHN BAYARD THOMAS BIOLOGY PRIZE. The John Bayard Thomas prize in biology has been established by Dr. Josephus Tucker Ullom, '98, as a memorial to his nephew. The prize consists of \$25 to be awarded annually to the junior or senior premedical student who has done the highest grade of work in courses offered by the department of zoology. In making the award, consideration is given to the subjects covered and the quality of work performed. A student who has once won the prize is not again eligible for consideration.

The committee on awards consists of the head of the department of zoology and the dean of the College of Arts and Sciences.

MEN'S UNION SCHOLARSHIP PRIZES. The Men's Union awards each year two keys, one in the fall semester and one in the spring semester, to the man having the highest scholastic standing. These are presented in the spring and are based upon the standings of the spring semester of the preceding school year and the fall semester of the current school year.

The Men's Union also offers three cups; one each, to the social fraternity, the pledge chapter, and the independent housing unit, which has the highest scholastic average for the fall semester.

PHI EPSILON PI MEMORIAL AWARD. An award honoring fraternity brothers killed in action in World War II has been established by Phi Epsilon Pi. The cash award of \$25, to be known as the Phi Epsilon Pi Memorial Award, will be given annually to the honorably discharged veteran, man or woman, who attains the highest scholastic standing for the year as determined by the university. To be eligible for the award, which will be continued until there are fewer than five veterans on the campus, the veteran must be enrolled as a full-time student, carrying not less than 12 academic hours.

PHI UPSILON OMICRON AWARD. A silver cup is awarded each year by Phi Upsilon Omicron, national home economics honor fraternity, to the sophomore student in home economics having the highest scholastic average during the first three semesters at Ohio University:

SIGMA ALPHA IOTA MUSIC PRIZE. Sigma Alpha Iota, national professional music fraternity for women, gives a prize of \$25 to the sophomore woman enrolled for the degree of Bachelor of Fine Arts in Music, or for the degree of Bachelor of Science in Education with a major in music, who has attained the highest cumulative scholastic average above 3.000.

SIGMA DELTA CHI SCHOLARSHIP AWARDS. Scholarship certificates are given annually by the Ohio University chapter of Sigma Delta Chi, national journalism fraternity for men, to the three journalism students having the highest scholastic records.

SIGMA DELTA CHI SPECIAL AWARD. A certificate is given annually by the Ohio University chapter of Sigma Delta Chi to the most outstanding senior man in journalism.

SUPER GREEK PRIZES. In honor of Dr. Charles W. Super, a former president of Ohio University and professor of Greek, his students and friends established the Super Scholarship Prize Fund of \$2,500. The income from this sum provides a first prize of \$100 and a second prize of \$50 to be awarded annually to members of the junior and senior classes.

The awards are based upon the extent and quality of the work done in courses in the Greek language and literature; in courses dealing with Greek civilization and culture, and with classical culture in general; and in courses in the languages as a whole.

The committee in charge of the awards consists of the chairman of the department of classical languages and the dean of the College of Arts and Sciences, in consultation with other members of the department. Details may be obtained from members of the committee.

TAU KAPPA ALPHA FORENSIC PRIZES. Each year the Ohio University chapter of Tau Kappa Alpha, national honorary forensic fraternity, conducts a series of contests in the field of public speaking. The fraternity

awards medals to the winners of each of these contests. They include extempore speaking contests for both men and women, and men and women's oratorical contests to choose representatives for state intercollegiate competition. They also include a poetry interpretation contest for women and a prose interpretation contest for women. A campus-wide intramural debate tournament is also sponsored by Tau Kappa Alpha. The winning unit in both the men's and the women's divisions is awarded a loving cup.

WOMAN'S MUSIC CLUB PRIZE. The Woman's Music Club of Athens awards an annual prize of \$25 to a senior student chosen from the music majors of either the College of Fine Arts or the College of Education. The director of the School of Music in the College of Fine Arts makes the selection. Consideration is given to scholastic average, which must be at least a 3.000 average, and the excellence of the performance.

WOMEN'S LEAGUE SCHOLARSHIP AWARD. The Women's League awards a prize of \$25 for high scholarship to the woman student who has been in residence at Ohio University for a period of three semesters and who has the highest scholarship average for a period of two consecutive semesters within a 12-month period.

ZETA TAU ALPHA PRIZE IN FINE ARTS. Alpha Pi chapter of Zeta Tau Alpha, together with the Athens alumnae chapter, awards a prize of \$25 each year to the sophomore in a given field in the College of Fine Arts recommended by a committee for merit, scholarship, and future promise of success. The prize shall be awarded in rotation to a student in music, in speech, in painting, and in dramatic art.

STUDENT AID

EMPLOYMENT OPPORTUNITIES FOR STUDENTS. Every effort is made to secure employment for those students who are partially self-supporting, but it is impossible to find work for all students needing assistance. With this in mind, every student should survey carefully the costs involved in attending Ohio University and compare them with his available resources. No one should attempt part-time employment unless financial circumstances make it absolutely necessary. A student can more wisely devote his time to educational opportunities and also make it possible for a student whose needs are greater to attend the university. Those students who find it necessary to earn a part of their expenses while attending the university should make application for employment at the office of the dean of men or the dean of women. Students engaged in regular part-time employment who desire to carry more than 12 semester hours must obtain a permit from the dean of men or the dean of women.

SCHOLARSHIPS

OHIO UNIVERSITY SCHOLARSHIPS. A limited number of scholarships are available to Ohio University students each year. Scholarships are awarded for the academic year of two semesters. A scholarship provides for the remission of the \$45 general registration fee each semester. All

applications for scholarships must be submitted to the dean of men (for men) or the dean of women (for women). Applications must be submitted not later than August 1.* Final awards are made by the Committee on Scholarships on or before August 15. Scholarship students are required to carry a minimum load of 14 hours each semester.

Freshman Scholarships are awarded to graduates of Ohio high schools who rank high in their graduating classes. Awards are based upon academic record in high school and other information indicative of the candidate's general promise.

Upper-class scholarships are awarded only upon application. To be eligible for consideration for an upper-class scholarship, a student must have been in residence at Ohio University at least two semesters, carrying a full load, and at the time of the award must have an accumulative average of 3.500 or above. Any student having a 3.500 average, or who expects to have an average of 3.500 by the close of the second semester, may apply for an upper-class scholarship at any time after May 1 and prior to August 1.

COLUMBIA DOWNING SCHOLARSHIPS. Madeleine Downing Knight, Glynlea, South Jacksonville, Florida, has established a scholarship fund of \$10,000 as a memorial to her father, Columbia Downing, who in the early sixties was a student at Ohio University. The income of the fund, \$600 annually, is normally divided among several qualified students and awarded under the following conditions:

- 1. Application for the scholarship should be made directly to the dean of men for presentation to the Scholarships Committee not later than August 1.
- 2. The scholarship is to be known as the Columbia Downing Scholarship.
 - 3. The scholarship is awarded to men, preferably natives of Ohio.
 - 4. The scholarship is awarded on the basis of:
 - a. Demonstrated intelligence and scholarship.
 - b. Mental and physical health.
 - c. Superior traits of character and conduct.
 - d. Effective participation in extra-curricular activities such as debate, music, oratory, athletics, etc.
- 5. Preference shall be given to sophomores and the scholarship may be renewed in the junior and senior years, provided the standards as set forth above are maintained.
- 6. The selection is based upon proficiency in general rather than special ability in one subject, emphasis being placed upon promise of development in strength of character and qualities of useful citizenship.

^{*}During the period of heavy postwar enrollments it will be advisable for persons interested in securing scholarships to submit their applications at the earliest possible date.

AMERICAN BANKERS ASSOCIATION SCHOLARSHIP. The American Bankers Association Foundation for Education in Economics allocates annually a \$250 loan scholarship to the College of Commerce. The loan scholarship is awardable to a deserving student of senior rank or above whose major course is in banking, economics, or related subjects.

RHODES SCHOLARSHIPS. Men who have completed their sophomore year at Ohio University are eligible to compete for the Cecil Rhodes Scholarship, tenable for three years at Oxford University, England, with a stipend of \$2,000 each year. These scholarships are awarded on the combined basis of character, scholarship, athletics, and leadership in collegiate activities. A limited number of War Service Scholarships (for married or unmarried veterans, who, at any time since October 1, 1940, were between the ages of 19 and 25 years, and who have completed at least one year of war service) have been created. Information may be obtained from Dr. George W. Starcher, Chairman, Scholarships Committee, Ohio University.

LOAN FUNDS

ALUMNI LOAN FUND. The alumni and friends of Ohio University have contributed \$7,918.81 since 1908 for the purpose of furnishing loans to students pursuing a four-year course in the university. To receive a loan a student must have attained junior or senior rank and have at least a C (2.000) average. Five per cent interest is charged. Since the first loan was made in 1908, \$66,785.77 has been advanced to needy students. The fund is administered by a committee of which the dean of men is chairman.

ATHENS ROTARY CLUB LOAN FUND. The Rotary Club of Athens supports a loan fund for needy students of junior or senior rank. The fund is administered by a faculty committee. Loans, not to exceed \$100, may be made on promissory notes with interest at the rate of five per cent per annum. To qualify, an applicant shall have for his entire record a scholastic average of not less than C (2.000). Inquiries may be addressed to the dean of men who is chairman of the Athens Rotary Club Loan Fund Committee.

CLINTON POSTON BIDDLE MEMORIAL LOAN FUND OF OHIO UNIVERSITY. On June 3, 1939, Doctor and Mrs. T. R. Biddle gave \$5,000 to the university for the purpose of establishing a loan fund in memory of their son, Clinton Poston Biddle. Loans, from \$25 to \$200 at five per cent interest, may be made from this fund to needy and deserving juniors or seniors who have a scholastic average of (2.75) or better. The fund is administered by a committee composed of the deans of the undergraduate degree colleges. Communications concerning the fund may be addressed to The Chairman, Committee on The Clinton Poston Biddle Memorial Loan Fund, Ohio University.

JAMES P. PORTER LOAN FUND IN PSYCHOLOGY. This fund was established by graduates and former students who were majors in psychology in honor of Dr. James Pertice Porter, emeritus professor of psychology

and former department head. Loans are available to upperclass students and graduate students in psychology under regulations set up to govern the fund. Applications for loans should be made to Chairman, Loan Funds Committee, Ohio University, and must be approved by the staff of the psychology department.

KAPPA DELTA PI, OMEGA CHAPTER, LOAN FUND. Omega Chapter of Kappa Delta Pi has established a loan fund for students in their junior or senior years who are members of Kappa Delta Pi or who are registered in the College of Education. Loans not to exceed \$100 will be made at five per cent interest for the duration of one year. Applications may be addressed to Dean Irma E. Voigt, Ohio University, Athens, Ohio, chairman of the fund committee.

OHIO UNIVERSITY ENGINEERS LOAN FUND. The Ohio University Engineers Club has established a lean fund for needy and deserving engineering students in their junior or senior year who have maintained a C (2.000) average. Loans from \$25 to \$200 at five per cent interest may be obtained. Inquiries should be addressed to the dean of the College of Applied Science.

WOMEN'S LEAGUE LOAN AND SERVICE FUND. Since 1913, the Women's League of Ohio University has maintained a loan and service fund for women students. A sum not to exceed \$100 may be borrowed by a student who has spent at least one year on the campus. Collateral, or payment guaranteed by a parent, is required. Four per cent interest is charged. The dean of women acts as treasurer of the fund.

EMERGENCY LOAN FUNDS

ALPHA PHI OMEGA LOAN FUND. When the Delta Gamma chapter of Alpha Phi Omega, national scouting service fraternity, was installed on the Ohio University campus, January 17, 1943, a loan fund of \$50 was established. Scouts or former scouts may borrow up to \$15 from this fund to meet financial emergencies. A service charge of 25c is made for a 30-day loan. Application should be made at the office of the dean of men.

MEN'S UNION EMERGENCY LOAN FUND. The Men's Union, which is the governing organization representing all men on the Ohio University campus, has set up a loan fund with a principal amount of \$430. Loans not exceeding \$15 are made to students in temporary financial difficulty. A service charge of 25c is made for a 30-day loan. Application should be made at the office of the dean of men.

UNIVERSITY STUDENT HEALTH SERVICE

The Health Service, with a staff of three full-time doctors and six nurses, operates an outpatient clinic, an emergency service, and a 25-bed infirmary. The entrance to the clinic is at the main door of the Agriculture and Household Arts Building. When the clinic is closed, entrance to the emergency service is at the rear of the same building.

A continuous record of each student's health is maintained by the Service. The director of the Health Service has authority to take such steps on the campus as may be necessary for the maintenance of health, and students are expected to cooperate with him in the prevention of communicable diseases.

A health fee of \$5 a semester, which each student pays as he registers, entitles him to the following services:

- 1. Clinic. The outpatient clinic is open from 8:00 a.m. to 12 noon and from 1 p.m. to 4 p.m., except Saturdays when the hours are from 10:00 a.m. to 12 noon. The clinic is closed on Sundays, holidays, and during university convocations.
- 2. Infirmary. Admission to the infirmary is at the discretion of the university physicians. Each student is entitled to ten days free hospitalization each semester. For each day in excess of ten the charge is \$2. The daily visiting hour is from 2 to 3 p.m. and the number of visitors is restricted to two per patient. During epidemics the visiting hour may be suspended.
- 3. Emergency Service. After clinic hours, students may obtain emergency care by applying to the rear entrance of the Agriculture Building. The university physicians are not at liberty to make outside calls except in case of urgent emergency when the services of a local physician cannot be obtained. In such case, the university physician is to be called by the house mother, student dean, or other person in charge of the house or dormitory.
- 4. Consultations. Specialists in eye, ear, nose, throat, major surgery, and psychiatry are available in Athens. Consultations are obtained at the discretion of the director and at the expense of the Health Service. The Health Service does not assume any of the cost of dental or optical work. Fees for surgical operations are to be met by the individual concerned, but the Health Service may share in the hospital costs.
- **EXCUSES.** Excuses for absence from class are handled by the personnel deans. A student who has been a patient in the hospital, or who has been advised by the university physician to absent himself from class will be given a signed statement to be presented to the personnel dean when applying for an excuse.

ADAPTED ACTIVITIES. All students are expected to meet the minimum requirements in physical welfare in the freshman and sophomore years. Students with physical disabilities are examined by the university physicians and suitably adapted activities are recommended for them to the departments of physical welfare.

VACCINATION. New students, whether freshmen or transfers, must present evidence of vaccination against smallpox within the past five years, before being admitted to Ohio University. A blank certificate giving detailed instruction is sent to each applicant for admission and must be returned to the registrar, properly completed and signed.

HEALTH SERVICE FUND

DELLA HIXSON HEALTH SERVICE FUND. Prompted by a deep interest in physical welfare, the late Mrs. Della Connett Hixson, Cambridge, Ohio, of the Class of 1897, bequeathed a sum of money to the university, the annual interest on which, approximately \$700, is to be used for the treatment and hospitalization of students who are financially unable to provide such service for themselves or whose families can not defray these expenses. The fund, known as the Della Hixson Health Service Fund, is administered by a committee composed of the dean of women (chairman), the dean of men, and the director of the University Health Service.

BOARD AND ROOM

WOMEN'S DORMITORIES. The living accommodations of all women in the university are under the supervision of the office of the dean of women. There are three dormitories, Boyd Hall, Howard Hall, and Lindley Hall. In addition there are 9 cottages. Sixty per cent of the rooms in each are held for entering students and forty per cent for upperclass applicants (former students).

Rooms are furnished with rugs, dressers, study tables, chairs, beds, and bed linen. The university cares for the laundering of the bed linen. Couch covers, window draperies, blankets, and desk lamps are supplied by the students. Radios are permitted in the rooms upon the payment of a fee of \$1.75 a semester. Failure to pay the fee or to abide by the rules of a house council pertaining to radio hours carries the penalty of discontinuance of the privilege.

Each dormitory plans and develops a social program for those who live in the hall and those who come in for meals from private homes. The university administration has authorized the use of the retaining fee for a fund to carry on the social program of dances, teas, receptions, and dinner parties. Only a portion of the retaining fee is needed for the social program of the summer session, the balance being applied to the room rent.

Rooms in the dormitories rent for from \$45 to \$63 a semester for each student. During the postwar housing emergency the capacity of each room will be increased to the maximum commensurate with the equipment.

In addition to the rental fee, each dormitory resident pays a personal service fee of 25c a week. A \$1 key deposit fee is required from each student. This fee is refunded upon the return of the key when the room is vacated.

Dormitory residents are required to eat in the dormitory in which they are living. All residents of university-operated dormitory units are required to eat in a university-operated dining hall. Freshman women who live in private homes are also required to eat in an assigned dormitory dining room or approved boarding club. Exemptions from this requirement are granted to residents of Athens or immediate vicinity, to students who commute, to students who work for room and board, and to a few whose parents request exemption on the justifiable grounds of financial saving. The dean of women personally passes upon all such requests and determines the validity of the grounds presented. Upperclass women living in private homes who arrange to eat in the dormitory dining rooms at any time during the semester must continue eating there until the end of the semester, unless special permission to withdraw is granted by the director of dining rooms and the dean of women. Each dining room in the dormitory system is under the management of a competent dietitian who serves as a member of the staff of the director of dining rooms.

The cost of board is \$126 a semester. This rate for board will be maintained as long as possible. In the event of continued or excessive rises in food costs, however, the university reserves the right to adjust the rate accordingly.

Board and room fees for the semester may be paid in advance during the first week of the semester, or may be paid in four installments as arranged. Room and board fees are paid at the office of the treasurer of the university.

New students should make application for room simultaneously with application for matriculation, or as soon thereafter as possible. Applications for rooms in a dormitory are considered only if accompanied by a \$5 retaining fee made payable to the Students' General Fund, Ohio University. The retaining fee is applied to the social fund of the dormitory. The application and retaining fee should be mailed to the Dean of Women, Ohio University. If room reservation is cancelled by September 1, the retaining fee is refunded.

ROOMS FOR WOMEN. Women students also live in private homes inspected and approved by the supervisor of off-campus housing. A list of the homes is available in the office of the dean of women. Information or application for a room may be obtained by addressing the Office of the Dean of Women, Ohio University.

SORORITY HOUSES. The following sororities maintain houses near the campus: Alpha Delta Pi, Alpha Gamma Delta, Alpha Xi Delta, Chi Omega, Phi Mu, Phi Sigma Sigma, Pi Beta Phi, and Zeta Tau Alpha.

MEN'S DORMITORY. The living accommodations of all men students in the university are under the supervision of the office of the dean of men. The Men's Dormitory at present includes the following units—Dana, Dunkle, Evans, and Gordy Halls. It has living quarters for the resident managers, spacious dining room facilities, and a large lounge. A program of academic counseling, social activities and intramural participation, and self-government is maintained. Graduate students in various subject fields are carefully selected to serve as counselors throughout the dormitory.

Rooms in the dormitory are furnished with dressers, study tables, chairs, beds and bed linen. The university provides for the laundering of the bed linen. Window draperies, lamps and additional furnishings may be supplied by the student. When in conformity with the best interests of the dormitory, and upon payment of \$1.75 per semester, a student will be permitted to have a radio in his room.

During the postwar housing emergency the capacity of each room will be increased to the maximum commensurate with the equipment. Room rent for each student will be \$54 to \$72 per semester.

All residents of the dormitory are required to eat in the dormitory dining room. The board charge is \$135 a semester. This rate for board will be maintained as long as possible. However, in the event of continued or excessive rises in food costs, the university reserves the right to adjust the rate accordingly. Payment for room and board for the first semester must be made during the first week of school through the office of the university treasurer. Special arrangements for installment payment can be made through the university treasurer.

A new student desiring to room in university-controlled housing should make application for a room simultaneously with his application for matriculation, or as soon thereafter as possible. A room application is considered only if it is accompanied by a \$25 retaining fee made payable to the Students' General Fund, Ohio University. Room applications and retaining fees should be mailed directly to the Dean of Men, Ohio University. Cancellation of room reservations must be requested by September 1 for the first semester and January 10 for the second semester or the retaining fee will be forfeited. The retaining fee is applied to the semester's rent.

COTTAGES AND HOUSING UNITS. In addition to the Men's Dormitory several university-owned cottages and housing units are available for men students. Room rent ranges from \$54 to \$72 per semester depending upon the type of accommodations provided. An application and a \$25 retaining fee is required for a room reservation in one of these units. Make all applications for living accommodations to the Dean of Men, Ohio University.

LOWER CAMPUS. Twenty-three dormitories for single men have been constructed on the lower campus (see map in front of catalog) for housing a total of 593 men. There are 18 units which accommodate 16 men each and five units which house 61 men each. Each unit is complete in itself and has a resident manager who also serves as a counselor for the men in his house.

A cafeteria has been erected in this new area which is large enough to accommodate all of the men living on the lower campus. Meal costs are based on the same rates as those charged in the men's dormitory.

ROOMS FOR MEN. Rooms in private homes are listed in the office of the dean of men. The price of a double room varies from \$3 to \$5 per week per person and from \$5 to \$7 per week for a single room.

A student renting a room in a private home is expected to remain in the home for one semester unless definite arrangements are made with the householder.

HOUSING FOR VETERANS. For statements concerning housing accommodations for veterans, both single and married, see page 58.

FRATERNITIES. The eleven social fraternities which maintain houses near the campus are: Alpha Phi Delta, Beta Theta Pi, Delta Tau Delta, Phi Delta Theta, Phi Epsilon Pi, Phi Kappa, Phi Kappa Tau, Pi Kappa Alpha, Sigma Theta Gamma, Tau Kappa Epsilon, and Theta Chi.

Average membership costs are: Initiation fee, \$50; monthly dues, \$8; room rent per month, \$15.

EXPENSE ESTIMATE

The following is an estimate of expenses for one eighteen-week semester at Ohio University:

•	Men	Women
General registration fee	\$ 45.00*	\$ 45.00
Student activity fee	6.00	6.00
Health fee	5.00	5.00
Library fee	1.00	1.00
Rent of room in dormitory		
(minimum)	54.00	45.00
Board in dormitory	135.00	126.00
	-	
· ·	\$246.00	\$228.00

The above estimate does not include laboratory fees, books, laundry, or incidentals because these items are variable. The fee for a laboratory course varies from \$1 to \$10; the amount is indicated in the description of the course. A student who desires private instruction in music pays fees, in addition to the registration fees, as indicated in the description of each course (see "Applied Music"). The cost of books amounts to from \$20 to \$30 for a year. The cost of laundry and incidentals is determined by the needs of the student.

The student who plans to live in a dormitory should be prepared to spend from \$300 to \$325 during the first week. Arrangements may be made to pay the dormitory assessments in installments. When this has been done, the amount necessary for the first week can be reduced to approximately \$200. For additional information see "Board and Room." Out-of-state students need \$150 or \$200 more than the amounts indicated.

The university does not make provision for handling students' accounts. The local banks, however, render such service. Registration fees may not be paid to the treasurer of the university before the day of registration; board and room accounts may not be paid before Friday of the first week of the session.

^{*}The registration fee for a student who is not a resident of Ohio is increased by the nonresident fee. See "Fees and Deposits," page 64.

VETERANS ADMINISTRATION

Veterans who enter Ohio University should confer with the Co-ordinator of Veterans Affairs whose office will be found in the Student Center Building. It is that official's desire to help all veterans who enter under Public Law No. 346 or Public Law No. 16 in their adjustment to civilian and student life.

The admission of veterans to the university follows the general admission regulations. All applications and credentials are acted upon by the director of admissions and university examiner. When the veteran is undecided as to his choice of studies or career, the co-ordinator counsels with the veteran relative to his vocational interests and endeavors to assist him in making a wise decision with respect to his program of study. The co-ordinator may direct the veteran to the supervisor of university testing and vocational counseling service, to one of the academic deans, or to a member of the university faculty who may have been designated as a counselor or adviser to veterans. If a veteran finds it necessary to enter the university after the opening of a session, every effort will be made to assist him to meet the requirements of the class.

The co-ordinator is the source of information for the veteran concerning his education under Public Law No. 16 and Public Law No. 346, in reference to his benefits, identification papers, authorization for books, supplies, etc., and is his contact officer with the Veterans Administration. Ohio University operates under the Regional Office of the Veterans Administration, Cincinnati, Ohio.

The dean of the college to which the veteran is assigned assists him with his schedule of studies, outlines his course for the degree desired, and in general keeps the veteran informed on his academic and course requirements.

The personnel deans, the dean of men and the dean of women, may also be consulted by veterans for guidance in their personal problems. Through the facilities of the offices of the deans of men and women the Veterans Office secures a list of all veterans who have been absent for each month. A report on all absences is sent to Cincinnati at the end of each month for P. L. 16 veterans and at the end of the semester for P. L. 346 veterans. A report on all grades for each veteran is also sent at the end of the semester.

A vocational counseling service is available to all veterans in training under Public Law No. 16 and Public Law No. 346. Application for such service is made at the Veterans' Administration Advisement and Guidance Office, 108 Carnegie Hall.

The bureau of appointments serves as an agency to assist veterans who are, or have been, enrolled in the university in finding satisfactory employment. The bureau endeavors to have available up-to-date occupational information and to give vocational and occupational advice to veterans who may wish assistance.

To make application for educational benefits under the provisions of Public Law 346, the veteran should consult the nearest contact office or representative of the Veterans Administration and fill out Veterans Administration Form 7-1950, Application for Education or Training. At the time of applying, the veteran must have his original discharge certificates or certified or photostatic copies of his original discharge certificates to present to the Veterans Administration contact representative. In the case of officers who were formerly enlisted men, it is necessary to have both a copy of the enlisted discharge certificate and the certificate of service as an officer, in order to get the full amount of eligible time for benefits to which the veteran is entitled.

The contact representative or office of the VA will forward the application to the regional office of the VA for computing the eligible time and return the application to the veteran at the address as shown. The application after it has been returned to the veteran from the regional office, becomes the Certificate of Eligibility and Entitlement. The form then must be presented to the training institution selected at the time of enrolling. The certificate is endorsed by the institution and then returned to the regional office for official entrance into training and awarding of subsistence allowance if authorized.

At Ohio University, it is necessary for the veteran enrolling under this law to present his Certificate of Eligibility and Entitlement to the university at the time of registration. The present policy of the university requires the payment of fees the same as for a non-veteran if this certificate is not presented at registration time. However, when the certificate is presented to the university at a later date, the veteran will be refunded the fees and charges incurred. Subsistence allowance cannot be received by the veteran until after his Certificate of Eligibility and Entitlement has been presented to the university and returned by the institution to the regional office of the Veterans Administration in Cincinnati.

It is, therefore, important for any veteran contemplating entering training under this law, to apply for these benefits immediately so that he will have in his possession the Certificate of Eligibility and Entitlement from the Veterans Administration at the time of registration.

In order to be eligible to apply for Vocational Rehabilitation and Training under the provisions of Public Law No. 16, the veteran must have been awarded a disability compensation of 10% or more. Attached to the letter of award of compensation from the Veterans Administration will be an Application for Vocational Rehabilitation or Training, form 1900. When this form is received by the veteran, if he is desirous of applying for vocational training, he should take the form 1900 to the nearest contact office or Representative of the VA for advice and assistance in completion of the form. After completion of the form, it will be sent to the regional office of the Veterans Administration in that area for processing and the veteran will be notified as to the next step which must be accomplished. If a veteran, after being approved and found eligible for vocational training, is presently enrolled under Public Law

No. 346, he can be changed over to Public Law 16. This will be accomplished by the training officer to whom the veteran's case has been assigned.

In the case of those veterans who have applied for Public Law No. 16 vocational training, but who have not been definitely approved at the time of entering the university, they should have in their possession a Certificate of Eligibility and Entitlement for Public Law No. 346 training. This will then enable them to enroll in the university under Public Law 346 and therefore will not be required to pay for fees, books and supplies. They also will receive subsistence allowance for training under Public Law 346 while necessary action is being taken by the Veterans Administration to approve their training under Public Law 16.

When a veteran who thinks that he may be approved for Public Law 16 vocational training registers at Ohio University, the local VA training officer will be present to determine whether or not the veteran has been approved or will be approved for Public Law 16 training from the information which the veteran should have in his possession. the local Veterans Administration training officer is satisfied that the veteran will be approved for Public Law 16 training, he will give the university temporary approval which will enable the veteran to enter as a Public Law 16 trainee and therefore not be required to pay for fees, books, and supplies. However, the veteran will not receive subsistence allowance until the local VA training officer has received his records and has actually taken necessary action to induct the veteran into Public Law 16 vocational training. Subsistence allowance for Public Law 16 trainees, in any case, will be retroactive to the date of his approval for Public Law 16 training or the date he enters the university, whichever is the later.

HOUSING FOR VETERANS

SINGLE VETERANS. Accommodations for unmarried veterans will be found in the Men's Dormitory, the temporary dormitories on the Lower Campus, in other university-controlled housing units, and in private homes.

MARRIED VETERANS. Veterans' Village, located on College Street in the rear of the Student Center Building and the Lash Cottages, is comprised of 25 trailer units which accommodate 50 families. Each family unit is complete within itself; is compact, efficient, and quite livable.

In addition to Veterans' Village, the university has 115 apartment units located on East State Street, approximately two miles from the campus. Each of these apartments has a living room, bedroom, kitchen, and bathroom with an abundance of closet space.

None of the apartments is completely furnished. Tenants must arrange to supply the needed articles. Rents range from \$20 to \$36.50 per month, payable in advance. For further information concerning quarters for single or married veterans write to the Dean of Men, Ohio University.

UNIVERSITY REGULATIONS

ADMISSIONS

Ohio University is eager to furnish educational opportunities to as many students as possible. The great and increasing demand for admission, however, with the resultant burden on housing, faculty personnel, and classroom and laboratory facilities, may make it impossible for the university to accept all who apply for admission. Therefore, in accepting *new* students, both men and women, the following order of preference will prevail until the uppermost limits of the university facilities are reached:

- 1. Ohio veterans
- 2. Ohio non-veterans
- 3. Out-of-state veterans
- 4. Out-of-state non-veterans

In view of the many requests for admission and the desire of the university to serve those students who are interested in receiving an education, the university desires all freshmen to maintain a scholarship of at least 1.5 average. If a freshman fails to obtain a 1.5 average, he may be dropped from the university. All students must comply with the scholastic regulations of the university in order to continue in the university. A special committee has been appointed to review and give consideration to those students who are dropped from the university because of unusual difficulties in academic or personal adjustment to college life.

GENERAL ADMISSION INFORMATION. All correspondence pertaining to the admission of a student to the university should be addressed to the Director of Admissions and University Examiner, Ohio University, Athens, Ohio.

Application for admission consists of the presentation of an application blank filled in by the applicant, official transcripts of all high school or college credit, a small photograph, a vaccination blank certified by a physician, and a medical history blank filled in by the applicant and completed by a physician.

The application blank, photograph, and vaccination blank (showing evidence of vaccination against smallpox within the past five years) should be sent directly to the director of admissions. At the same time, or before this time, the official transcript of high school or college credit should be sent, or should be requested to be sent by the school or schools attended.

A veteran should submit with his application for admission a certified or photostat copy of WDAGO Form 100, Separation Qualification

Record; or Notice of Separation, Navy or Coast Guard Form 553 or 305, if he desires college credit for training while in the Armed Forces.

The medical history blank is to be filled in by the applicant, signed by the applicant's parent and taken to a licensed physician. The physician completes the record and mails it directly to the Director of Health Service, Ohio University, Athens, Ohio. The report shall list all infectious or communicable diseases which the applicant has or has had.

It is important to get all entrance credentials to the director of admissions early enough so that the applicant can be informed concerning his admission and the opening of the session in which applicant wishes to enter. If accepted, the applicant will be forwarded information which he will need for registration at the university.

THE TESTING PROGRAM. A student who is entering Ohio University for the first time pays the personal service fee of one dollar. This covers the expense of the testing program and entitles him to registration in the Bureau of Appointments when he becomes a senior.

Each undergraduate student is required to take the college ability test. A notice of the date, place, and hour of the test is included in his admission credentials. A student who fails to take the college ability test at the appointed time, or who applies for admission too late to take the test at the appointed time, is required to take the test at a later date and pay one dollar to cover the expenses incurred. A reading test for freshmen, vocational interest tests, and a personal audit test are included in the testing program. Any or all of these tests may be given to the entire entering group or may be made available to such students as care to take them.

The results of these tests are made available to administrative officers and members of the faculty to assist them in counseling and advising. Provision is made for the student to learn the significance of his test results through individual conferences with the dean of men or the dean of women, or through the psychology department.

Additional information regarding the testing program is given under the heading, "Testing and Vocational Counseling Service."

RESIDENTS AND NON-RESIDENTS OF OHIO. The admission regulations and the general registration fee for non-residents of the State of Ohio are higher than for residents of the state. A person is entitled to register as a resident of Ohio who, at the time of his first enrollment in the university, has been a resident of the State of Ohio for 12 consecutive months next preceding the date of his original enrollment. No person is considered to have gained or lost residence in the state for the purpose of registering in the university by any conduct of his own while he is a student in the university, unless after attendance at the university for one year it can be clearly established by the student that his previous residence has been abandoned and a new one established in Ohio for purposes other than merely attendance at Ohio University. A person whose legal residence follows that of other persons is considered

to have gained or lost legal residence in this state for such purpose while a student in the university according to changes of legal residence of such other persons, except that such legal residence is not considered to be so gained until 12 months after such persons become legal residents of this state.

The residence of minors follows that of the legal guardian, regardless of emancipation; but in case a resident of Ohio is appointed guardian of a non-resident minor, the legal residence of such minor for the purpose of this rule is not considered to be established in the State of Ohio until the expiration of 12 months after such appointment.

APPLICANTS FROM OHIO. All residents of Ohio who are graduates of approved high schools are considered for admission to the university. However, an applicant who ranks in the lowest third of his graduating class is admitted on warning. A student admitted on warning status may not be pledged to a fraternity or to a sorority and may not participate in extracurricular activities until his scholastic status warrants it.

An applicant who has completed 15 units of acceptable subjects in an accredited high school and is recommended for admission by his high school principal may be admitted to the university in accordance with the regulations stated above, even though he has not been graduated from high school.

Ohio University recognizes the General Educational Development Tests and will admit an applicant who receives a diploma from an accredited Ohio high school on the basis of these tests.

Any applicant, a resident of Ohio, who has attended another university or college and who desires to transfer to Ohio University is considered for admission if he has a 2.0 average in all courses attempted.

APPLICANTS FROM OUT OF THE STATE. The applications of veterans from out of the state are submitted to a special committee. The committee considers for admission only the veteran who ranks in the highest fifth of his high school class and who has shown superior ability in training courses and in other phases of military service.

A veteran who ranks above the 80 centile on the General Educational Development Tests (High School Level) may be considered for admission.

An application from an out-of-state civilian (non-veteran) student is considered if the applicant ranks in the highest *ten per cent* of his graduating class in an approved high school and qualifies for admission to the state university of his state.

A transfer student from out of the state who makes application for admission to any college of the university, except the Graduate College, is considered for admission if he has a 3.0 average in all courses attempted in all of his previous college work.

TRANSFER STUDENTS. Any transfer student who qualifies for admission according to the present regulations is admitted to the University College or to a degree college depending upon whether he has fulfilled the University College requirements. In either case, he is given rank in the college to which he is admitted in accordance with the general rules for the classification of students.

If a student attending another university or college does not wish to transfer to Ohio University but desires to take courses for a session and transfer his credits back to his own college, he may be admitted as a special student on an official statement from his college that he is a student in good standing.

GRADUATE STUDENTS. Applicants will be approved for admission to the Graduate College who hold the bachelor's degree from fully-accredited colleges or universities and who have an undergraduate scholastic average of 2.5. Applicants from fully-accredited colleges or universities whose undergraduate scholastic average is below 2.5 may be admitted provided they make a satisfactory grade on the Graduate Record Examination and/or the C.A.V.D. Intelligence Examination and/or achieve a B level (70 percentile rank) on a college ability test.

Applicants who hold the bachelor's degree from an unaccredited college or university and who have a minimum undergraduate scholastic average of 2.5 may be admitted if they make a satisfactory grade on the Graduate Record Examination and/or the C.A.V.D. Intelligence Examination and/or achieve a B level (70 percentile rank) on a College ability test.

SPECIAL STUDENTS. The following categories of students will be admitted as special students with no class rank:

A student who is over 21 years of age and who has not met all of the entrance requirements may be admitted as a special student but remains unclassified until he has made up high school credits and is regularly admitted to a degree or diploma program.

A student who has a degree and desires to take courses, either undergraduate or graduate, without pursuing another degree.

A student who has been attending another school and wishes to be admitted as a transient. Such a student is admitted upon presentation of a statement of good standing from the school last attended.

A student who enrolls for courses because of special interest and without regard to meeting degree or diploma requirements; e.g., a student who enrolls for aviation, photography, etc.

AUDITORS. An applicant who meets the admission requirements and does not desire to enroll for credit may enroll as an auditor. Written

permission from the instructors of the classes the student wishes to audit must be presented at registration time. Auditors register on the regularly scheduled registration days and pay the same registration fees as regular students.

ADVANCED STANDING EXAMINATIONS. Application for an advanced standing examination is made with the director of admissions and university examiner for any course listed in the current catalog in which the student desires credit without taking the course in class, provided the course lends itself to an examination. The application must be approved by the chairman of the department. Only a student who is enrelled for a minimum of six semester hours as a resident student of Ohio University is eligible to make application. A fee of \$2 is charged for each semester hour.

Credit for the course is granted when a student receives at least a C grade and has completed at least 15 semester hours of credit at Ohio University with a scholastic average of 2.0. If a student who is enrolled for 6 semester hours and who has not completed 15 semester hours is granted permission to take an examination for advanced standing, the credit is withheld until he has earned the required amount.

Any grade received on the examination for advanced standing becomes a part of the student's academic record.

CREDIT EARNED DURING MILITARY SERVICE. A student in military service may receive college credit for college courses completed through the United States Armed Forces Institute.

A student who has completed a course in a military training unit in another college may receive college credit for courses completed in the unit, provided the college in which the military training unit was located gives college credit for the courses and provided the amount of credit is not deemed excessive for the time indicated. Subjects that are a duplication of credit previously earned are not granted credit.

For training completed by veterans in training units other than those offered in the colleges, the recommendations made for college credit by the American Council in Education are followed.

A student who has covered the subject matter in certain fields (for example: mathematics, physics, meteorology) during his training period may receive credit in the courses by presenting evidence of having had the courses and by passing satisfactory examinations in the subjects.

If a student is within two semesters of graduation he will be allowed to graduate in absentia if he completes the requirements for a degree by earning credit in an accredited college while in service.

CREDIT FOR MILITARY SERVICE. A maximum of 8 semester hours of college credit for basic military training, or 16 semester hours for officer's training, will be granted to a student who, after completing his military service, enrolls in the university. A deduction in the amount of credit allowed is made for those students who have had the equivalent

amount in military science or who have received high school credit for military service. After dismissal from service, a certified copy of the Army Separation Qualification Record, WDAGO Form 100, should be presented. The form for the Navy and Coast Guard which is equivalent to the Army Form 100 is Form 553 or 305. A student desiring credit for military service should submit a certified or photostat copy of his Separation Qualification Record at the time he makes application for admission to the university.

If a student is within one semester of graduation, he may receive the credit due for military service without enrolling in the university, provided he has met his curriculum and scholastic requirements for a degree and provided the amount of credit granted is sufficient to complete the total semester hours required for graduation. The student is graduated in absentia.

FEES AND DEPOSITS*

Official enrollment for a student begins with the presentation of his registration cards to the registrar and is completed upon the payment of the fees assessed. Fees are payable at the treasurer's office at the time indicated in the schedule of classes which is issued for each semester or session.

REGISTRATION FEES

REGISTRATION FEES		
	Resident of Ohio†	Non- Resident
The Semester Session:	or onto	resident
General registration fee for normal load General academic normal load: 12 to 17 semes hours, inclusive. Engineering normal load: to 19 semester hours, inclusive.	ster	\$120.00
Student activity fee	6.00	6.00
Library fee		1.00
Health fee		5.00
Semester total	\$57.00	\$132.00
The Eight-Week Summer Session:		
General registration fee for normal load Normal load: 6 to 9 semester hours, inclusive	\$20.00	\$ 57.50
Student activity fee	3.00	3.00
Library fee	50	.50
Health fee		2.50
Total for the summer session	\$26.00	\$ 63.50

^{*}Ohio University reserves the right to make, without prior notice, any fee adjustments that may become necessary before the appearance of the next catalog. †See statement defining legal residence on page 60.

Excess and Part-time Loads:				
General registration fee for semester and summer sessions:				
For each semester hour in excess of normal load General registration fee for part-time load: Semester: 1 to 11 semester hours, inclusive Summer: 1 to 5 semester hours, inclusive	2.50	9.50		
For the first semester hour	3.50	12.50		
For each additional semester hourStudent activity fee, library fee, and health fee as above. Graduate students enrolled for conference courses are exempt from paying the health fee.	3.50	9.50		
The Post Summer Session:				
General registration fee: for the first semester hour	6.00	15.00		
For each additional semester hour	6.00	12.00		
Library fee	.50	.50		
Auditors: Fees in full as above				
Correspondence Study: Registration fee, each semester hour	6.50	7.50		
Extension Class: Registration fee, each semester hour	6.00	7.00		
The per hour fee is increased if a class is organized with an enrollment below the required quota.				
MUSIC FEES. Registration fees for private instru assessed in addition to the above registration fees. The in the "Courses of Instruction" under the division of	e fees are in	ndicated		
MISCELLANEOUS FEES				
Bureau of Appointments, registration*		\$1.00		
Bureau of Appointments, renewal of registration		1.00		
Change of College				
Change Order		1.00		
Entrance Tests, when not taken at the designated time				
Duplicate Fee Card				
Examination for advanced standing, each semester hou				
Grade Report Book (after the first book), maximum 1.00				
Grade Report Book Cover (after the first copy)				
Grade Report (after one copy)		.25		
Graduation—		40.00		
Application for degree				
Application for a diploma				
Re-application				
Penalty for late application		1.00		
immimary, nospital service for each day.		4.00		

^{*}Unless student has paid the personal service fee, **See "University Student Health Service."

Late registration or late payment of fees	1.00
Each additional day late (after date announced)	1.00
Graduate students taking work on a conference basis,	
each week late	1.00
Maximum penalty for any session	5.00
Military Science Deposit Fee	20.00
Permit to Register, late application	1.00
Personal Service Fee, for all entering students	1.00
Thesis Abstract Printing	3.00
Thesis Binding, each copy	2.00
Transcript of record, after first transcript request	1.00
Transcript of record, each copy after the first copy of a	
group request	.50

LABORATORY AND BREAKAGE FEES. Laboratory and breakage fees are indicated in the description of a course, and are assessed at registration time.

REFUND OF FEES. Voluntary and official withdrawal from the university entitles the student to a refund of a part of the fees according to the following schedule. A refund is made on the student activity fee on the same basis as the other fees, provided the student relinquishes his Photo-Athletic card. If a student withdraws from the university before he pays his registration fees or before he completes the payment of his registration fees, he is considered indebted to the university for the amount determined according to the refund regulations.

The Semester Session:

- 1. Within the first and second weeks, 90% refunded
- 2. Within the third and fourth weeks, 66%% refunded
- 3. Within the fifth and sixth weeks, 25% refunded
- 4. After the sixth week, no refund

The Summer Session:

- 1. Within the first week, 75% refunded
- 2. Within the second and third weeks, 50% refunded
- 3. After third week, no refund

The Post Summer Session:

- 1. Within the first week, 50% refunded
- 2. After first week, no refund.

A week is interpreted to mean a calendar week and ends at noon on Saturday.

No refund is made for a student who is indebted to the university. No refund is made until 30 days after the official withdrawal of the student from the university.

When a student reduces his load from excessive to normal or from normal to part-time, a refund is made immediately according to the foregoing schedule.

When a student withdraws from a laboratory course by change order, a refund of the laboratory fee is made immediately according to the foregoing schedule. A department may disallow refunds if at the time of withdrawal the materials used by the student are of such a nature that the department can make no use of them for another student.

REGISTRATION:

A knowledge of the general regulations of the university is essential to every student. A student is especially responsible for a knowledge of the registration regulations and for making an accurate and satisfactory schedule. Details concerning the registration procedure are given in the schedule of classes which is obtained at the registrar's office before each registration.

PERMITS TO REGISTER. A permit to register must be obtained for each registration. A student enrolled in the university obtains his permit in accordance with regulations announced by the registrar. A penalty of \$1 is assessed for failure to obtain a permit during the time specified.

A former student obtains a permit to register by calling at the registrar's office or by making his request by mail about a month before the opening of the session he wishes to attend.

A new student receives his permit to register by mail with other admission material.

ADVISING AND REGISTRATION. The university calendar printed in the catalog and the schedule of classes issued for each session announce the advising and registration days. The hour and the place for advising and registration are indicated on the permit to register obtained for each session. A student who enrolls after the date announced is charged \$1 for late registration, with the addition of \$1 for each day late. The fee is also charged for a student who fails to pay his registration fee according to the days announced. The maximum late registration fee is \$5.

A graduate student who enrolls late for work on a conference basis is charged \$1 for each week late.

STUDENT LOAD. A student's normal registration load for a semester is from 12 to 17 semester hours, inclusive, with the exception of an engineering student whose normal load may total 19 semester hours.

Permission to carry more than the normal load may be obtained from the dean of the college in which the student is enrolled.

The normal load for a student on scholastic probation is 12, 13, or 14 semester hours.

A student in any college may carry less than a normal load if he desires to do so.

A part-time employed student must have his student load approved each session by the dean of men or the dean of women.

CLASSIFICATION OF STUDENTS. A student who has been regularly admitted to the university and who expects to pursue a degree or a diploma course is classified according to the number of semester hours completed and given rank as follows: Freshman, 0-24; Sophomore, 25-54; Junior, 55-86; and Senior, 87 and over.

All other students are unclassified. If an unclassified student has completed 24 or less semester hours, he enrolls as a special student in the University College; if he has completed 25 or more semester hours, he registers in the degree college of his choice as a special student. An unclassified student continues to enroll as a special student until he has made up high school credit deficiences or is regularly admitted to a degree or diploma course.

A student who has earned a degree and desires to register for undergraduate courses without pursuing another degree enrolls as a special student in the degree college from which he was graduated; however, a student who wishes to enroll for a special interest subject only may register in the college offering the course.

A student who has been admitted to the Graduate College enrolls as a special student when he does not wish to pursue a program leading to a degree.

CHANGE ORDERS. When a student finds it necessary to change or correct his registration, he requests a change order in the office of the dean of the college in which he is enrolled. The order does not go into effect until it has been presented to, and has been accepted by, the office of the registrar. The change order fee of \$1 may be assessed during the first three days of recitation by the dean of the college. After the first three days of recitation, the change order fee is determined by specified regulations.

No change orders are issued for admission to a class after the close of the third week of the semester.

A course dropped by change order issued after the first six weeks of a semester, the first three weeks of the summer session, and the first week of the post summer session is marked WP or WF according to the instructor's report.

CHANGE OF ADDRESS. A student is responsible for any university office communication sent to him at the last address reported to the registrar's office. Forms for reporting a change of home or Athens address are available in the registrar's office.

CHANGE OF COLLEGE. Application for a change of college, the transfer from one degree college to another, is made in the office of the dean in which the student is enrolled and should be made before or during the registration process. The change goes into effect when the application,

signed by the two deans concerned, has been presented to the registrar and the transfer fee, \$1, has been paid. A student is required to fulfill all the requirements of the degree and the college to which he transfers. The change of college, which includes the payment of the transfer fee, must be completed within two weeks after the opening of a session or the student remains in the college in which he was registered until the next session.

WITHDRAWAL. Application for withdrawal from the university is made on a withdrawal form obtained in the office of the dean of the college in which the student is registered. When the request for the withdrawal has been approved by the dean of the college, the order is referred to the registrar who grants an official withdrawal after it has been determined that all obligations to the university have been met. A refund of registration fees is made according to regulations under "Fees and Deposits."

A student who leaves the university without obtaining an official withdrawal is not permitted a refund of fees and is given F in all courses.

CREDIT. All credit is designated in semester hours. A semester hour is the equivalent of one recitation or two or more laboratory periods a week throughout a semester. In order to receive credit, all students are required to take final examinations. The final examinations are held during the last week of a session and all students are required to take the examinations according to the schedule of examinations posted on the bulletin boards.

The final examination for honors work must be taken one week before the date of graduation. For information concerning honors work, refer to "Honors Work Program."

GRADING AND SCHOLARSHIP

GRADES. The grading system is as follows: A, very high; B, high; C, average; D, passing; F, failure; I, incomplete; W, withdrawn, WP, withdrawn passing; WF, withdrawn failing; and Cr.

CR. GRADE. Credit is recorded when credit has been allowed without an indication of grades.

F GRADE. F is recorded for a student who fails to attain the required scholastic standard, at least 70 per cent. Credit for the course can be secured by re-registering in the course and repeating the course with a final passing grade or by re-examination with a grade of C according to regulations under "Credit Regulations." F is also recorded for a course from which a student has not officially withdrawn by change order or withdrawal order, and for a course in which a student has unexcused absences after he has been placed on class probation.

I GRADE. An I grade is given to a student who has a relatively small part of the session's work not completed because of illness or other

reason beyond the student's control as verified by the dean of men or the dean of women, or for some reason acceptable to the dean of the college in which the student is enrolled. An I grade is not given to a student whose class grade is below passing. An I grade must be made up within six weeks from the opening of the next subsequent semester in which the student is registered. An extension of time for the removal of an I grade may be recommended by the dean of men or the dean of women for illness or other good reason. An I grade allows no points until after the grade has been made up with a passing grade.

WP AND WF GRADES. WP and WF grades are reported for withdrawals after the first six weeks of a semester, the first three weeks of the summer session, or the first week of the post summer session. WP indicates that the student is passing in the course at the time of withdrawal; WF, that the student is failing.

POINT SYSTEM. For each semester hour of credit with the grade of A, a student receives four points; B, three points; C, two points; D, one point; I, no points until the final grade is determined; F, and WF, no points.

A student's semester average is determined by the grades reported at the close of the semester. WP and hours transferred or recorded as Cr. do not affect a student's scholastic average. The number of semester hours of F, WF, I, and repeated courses, are counted as hours attempted in computing a student's scholastic average.

GRADE REPORTS. Grades for all students are reported to the registrar's office at the end of each session. No grades are recorded for auditors.

A grade report is mailed to each student *immediately* after the close of a session. A carbon copy of the grade report is sent to the dean of the college in which the student is enrolled and to the dean of men or the dean of women. A request for a duplicate grade report must be accompanied by 25 cents.

At the end of the seventh and thirteenth weeks, grades for freshmen are reported to the dean of the University College. The grades are available to the student through his counselor. The dean of the University College sends a notice of warning at the close of the first grade reporting period to the student, and to the student and his parents at the close of the second period when the student has an average below 1.5.

At midsemester, reports of low standing in class are mailed by the registrar's office to all degree college students.

When a student's accumulative average falls below 2.0 a notice concerning poor scholarship is sent by the dean of the degree college in which the student is enrolled to the student and to his parents.

TRANSCRIPTS. A photostat copy of a student's record is issued by the office of the registrar as an official transcript. Transcripts are made only upon request. Each student is entitled to one transcript free of charge before graduation and one, free of charge, after graduation. A transcript requested after either of the free copies has been issued costs \$1. The transcript fee must accompany the transcript request.

When a request is made for more than one transcript at one time, the first copy may be free or cost \$1, depending upon whether the student has obtained his free copy, and the additional copies of the request cost 50 cents each. In order to avoid delay, the correct fee should accompany the request.

A transcript carries a statement of honorable dismissal except when a student has been dropped from the university because of poor scholarship, nonpayment of fees, or unsatisfactory conduct. A student on scholastic probation is granted a statement of honorable dismissal only as to character.

The same fee regulations pertain to a student enrolled in the Graduate College with the following exception: a graduate of Ohio University who has received a free copy of his undergraduate credit after graduation is required to pay \$1 for a transcript if, as a graduate student, his first request for a transcript includes both undergraduate and graduate credit.

HONORS DAY. Honors Day Convocation, usually held in April, is for the purpose of honoring those students who have attained a high scholastic average. The names of undergraduate students who rank in the highest ten per cent of their classes are indicated in the Honors Day Convocation program. The minimum scholastic average within the highest ten per cent of each class is a 3.0 (B) average. The names of the students who rank in the highest one per cent of their classes are starred. Upperclass transfer students who have attended the university for two semesters are eligible for the distinction.

Graduate students are likewise honored if they rank in the highest ten per cent of the group and have attained at least a 3.5 (B+) average on a minimum of 12 semester hours credit earned in residence. The names of the graduate students who rank in the highest one per cent of the group are starred in the Honors Day Convocation program.

SCHOLASTIC REGULATIONS—UNIVERSITY COLLEGE. A student enrolled in the University College who fails to obtain a 1.5 average in any semester may be dropped from the university. A notice is sent to the student and to his parents by the dean of the University College.

SCHOLASTIC PROBATION REGULATIONS. A student enrolled in a degree college is required to maintain a minimum semester scholastic average of 1.5. If a student fails to obtain a 1.5 semester average, he is placed on scholastic probation. The semester average is computed according to regulations explained under the heading, "Point System." When a student is placed on scholastic probation, he is subject to the probation regulations, limited in student load, and must improve his scholarship in order to continue in the university. A notice of a student's probation status is sent by the registrar to the student at the close of

each session in which he is enrolled on scholastic probation. When a student is placed on scholastic probation and when he is automatically dropped, a notice is also sent by the registrar to the parents.

The probation regulations do not apply in the summer session, the post summer session, nor for a part-time student.

The approved probation load is 12, 13, or 14 semester hours. A student may increase his load with the consent of the dean of his college.

At the close of the semester in which a student is enrolled on scholastic probation his probation status is determined by his semester average or his accumulative average. If his semester average is 2.0, he is removed from probation. If his semester average is below 2.0, his status is determined by his accumulative average. If a sophomore's accumulative average is below 1.6, he is automatically dropped from the university; a junior is dropped if his average is below 1.7; a senior, if below 1.8. A student whose semester average is below 2.0 but whose accumulative average is above the average required for his rank is continued on scholastic probation.

A student who has been placed on probation, continued on probation, or automatically dropped because of I grades, has his status changed immediately if the grade or grades reported after the removal of the I grades make the scholastic average required.

Any student who has all F grades at the end of a semester is automatically dropped, even though he has not been on scholastic probation.

An automatically dropped student who has been out of the university for one semester and has approximately the average required for graduation, may petition for readmission on a form provided by the dean of his college.

ABSENCES

CLASS ABSENCES. The members of the faculty are responsible for keeping a record of attendance in each class and submitting lists of absences to the dean of men and the dean of women under the following conditions: (a) frequent tardiness, (b) frequent absence on any one day of the week, (c) absence from all meetings of the class for one week, (d) absence from so many meetings of the class that academic work is affected, (e) irregular attendance in class after being placed on class probation, and (f) absence from the final meeting of the class before an official university vacation period or from the first class following such period.

EXCUSE FOR ABSENCE. A student who has been absent from class for an acceptable reason presents an excuse for such absence to the dean of men or the dean of women. Excuses are granted for absences due to: illness; death in the family; wedding in the immediate family; trips in connection with authorized educational and university activities; other

educational trips, appointments, meetings, and extracurricular activities approved by the dean of men and the dean of women.

An excuse for absence must be obtained from the dean of men or the dean of women not later than one week after the first class meeting which the student attends following the absence.

ABSENCES AND STANDING IN CLASS. Faculty members request the dean of men and the dean of women to place a student on class probation for excessive absence. Probation of this kind implies that a student who is reported absent from class after being placed on class probation will automatically receive F in the course unless such absence is excused.

The dean of men or the dean of women, in the case of a request to have a student placed on probation, notifies in writing the student, the registrar, the dean of the respective college, and the faculty member who made the request.

The student alone is responsible for whatever has been missed because of an unexcused absence. In the case of an excused absence the faculty member will arrange with the student for making up what has been missed.

UNEXCUSED ABSENCES BEFORE AND AFTER VACATION. A penalty of one semester hour is added to the requirements for graduation for an unexcused absence in the last scheduled class preceding a vacation and the first scheduled class following a vacation.

If a student is absent from all classes on the day immediately preceding a vacation and the last class on the second day preceding a vacation, he is penalized two semester hours. The same applies to the two days immediately following an approved vacation. A total of four semester hours may, therefore, be added to any one student's graduation requirements for absences incurred at any one holiday period.

GRADUATION

APPLICATION. A candidate for graduation must make application for graduation in the registrar's office not later than the dates given in the university calendar for the session in which he plans to graduate. The diploma fee for a degree is \$10; for a diploma, \$5. Application for graduation made after the time designated adds a penalty of \$1. Payment of the diploma fee after the stated dates constitutes late application and requires the payment of the late penalty fee of \$1.

All work for a degree must be completed before the time or the date of graduation. If an applicant fails to meet the requirements for graduation, he may reapply after he has fulfilled, or planned to fulfill, his requirements. In either case, reapplication is made in the registrar's office according to the dates given in the university calendar for the session in which he plans to graduate. The reapplication fee is \$2.

SCHOLASTIC AVERAGE. A student is required to have a scholastic average—a point-hour ratio—of 2.0, on all hours attempted. A transfer student is also required to have a scholastic average of 2.0 on the hours attempted at Ohio University.

The minimum number of semester hours and scholastic points are increased by the number of hours received as a penalty for excess absences before or after a holiday vacation and by the number of hours of repeated subjects, and may be increased by the number of semester hours earned in excess of 4 semester hours credit in physical activity courses.

PHYSICAL EDUCATION. Men students are required to complete a minimum of one year of physical activity courses, two semester hours credit. If a student qualifies in a physical activity test, he is not required to take additional courses after the first year. If he does not pass the test, he is required to continue to enroll in physical activity courses until he passes the test or until he has completed a total of six semester hours. A veteran may fulfill the requirement by completing a total of four semester hours.

Any veteran may take the physical activity examination and be excused from all or a part of the physical education requirement.

The basic courses in military science or military service do not substitute for the physical education requirement.

Women students are required to complete two years of physical activity courses, four semester hours credit.

The credit hours earned in physical activity courses in excess of four semester hours may be added to the total of hours required for graduation at the discretion of the dean of the college.

EXEMPTIONS, EXCUSES, AND DEFERMENTS. Exemptions, excuses, and deferments are allowed for both men and women as follows:

Exemption from the physical activity requirement is made automatically by the registrar for a graduate student, for a student who is 30 years of age or over, or for a veteran who is 25 years of age or over provided he has completed the requirement up to and including the semester in which he attained the required age.

An excuse from the physical activity requirement is granted to a permanently disabled student by the director of physical welfare upon the recommendation of the director of the health service. The student excused from the requirement is required to substitute a health course or courses equal to the number of hours excused up to a maximum of four semester hours. A veteran may substitute an examination in health courses.

Deferment—postponement for one semester—is authorized by the director of physical welfare upon the recommendation of the dean of men or the dean of women for a student who has an excessive physical

load in connection with part-time work or for other reasons. A student enrolled for a part-time schedule is automatically deferred by the registrar. Any student who is granted a deferment in physical activity courses must complete the full requirement before graduation.

MILITARY SCIENCE. For the duration of the war, all physically fit male students between the ages of 14 and 24, inclusive, are required to register for military science and tactics until they have completed the basic courses. However, returning veterans who have been honorably discharged from military service and students in the 4-F classification are exempt from this requirement.

Military science credit does not increase the total semester hours required for graduation, provided the student utilizes his curriculum elective hours for this credit.

RESIDENCE. The minimum residence requirement for a degree or a diploma is two semesters or the equivalent in summer terms which should total not fewer than 30 weeks. During the thirty weeks in residence, the student must complete a minimum of thirty semester hours. Saturday and evening class credit may be used to satisfy the residence requirement in combination with one semester or several summer terms. The number of weeks of residence for part-time students enrolled in Saturday, evening, and day classes is determined by the number of hours of credit allowed for the course. Credit earned in the Extension Division, whether in extension classes or in correspondence study does not count toward the fulfillment of the residence requirement.

A student must be in residence during the session in which the degree is granted unless he has been granted permission to graduate in absentia.

IN ABSENTIA. A student graduating in absentia is excused from attending commencement exercises and is exempt from that part of the residence requirement which states that a student must be in residence during the session in which the degree is granted. Permission is obtained from the dean of the college in which the student is enrolled. Additional information is given under the "College of Arts and Sciences" and the "College of Commerce."

A student who has had his college work interrupted by the war at the time he was about to graduate or when his subject requirements for the degree were about completed is permitted to graduate in absentia under conditions stated in the catalogs of the war emergency years.

Application for graduation in absentia must be made within the first two weeks of the session in which the student expects to graduate. The time is indicated in the university calendar. If an official record or a transcript of credit is to be presented to fulfill graduation requirements, the transcript must be in the office of the director of admissions and university examiner at least one month before the commencement date or an explanation should be sent to the registrar.

TIME LIMIT. A student first registers for a bachelor's degree when he enrolls in a degree college, after he has been released or transferred from the University College, and may secure that degree by fulfilling the requirements as outlined in the catalog of the year in which he first registered in the university. A student who does not complete the degree requirements within the usual three years spent in a degree college may be allowed to fulfill the same requirements at a later date, provided he completes them within seven years after his first enrollment in the university. A transfer student is governed by the same regulations, except that the number of years in which to complete the degree requirements is reduced by the number of years of transferred work.

GRADUATION WITH HONOR. A candidate for the bachelor's degree who is graduated with a scholastic average between 3.0 and 3.5 is distinguished on the commencement program by the notation "with honor"; with 3.5 or above, by the notation "with high honor." A transfer student is similarly distinguished if his record meets the requirement.

A candidate who has successfully completed a program of study as an honors student is, in addition, distinguished on the commencement program by the notation "with honors in _____," with the indication of the field in which he has achieved distinction.

HONORS WORK PROGRAM. Honors work is offered to give a superior student such freedom as will enable him to pursue the study of his chosen field as rapidly as his talents permit. Among the objectives of such work are the acquisition of knowledge of a chosen field, the integration of a knowledge of one field with that of related fields, the development of the ability to carry on independent investigation and research, the enhancement of skill in expressing in writing the results of reading or investigation, and the development of creative talents.

Students who have attained a scholarship quotient of 3.0 or better and possess a talent to work independently may become candidates for a degree with honors in their chosen field of study. Application is made during the junior year or at the beginning of the senior year to the committee on honors work. The committee, with the approval of the student's dean and in consultation with the student's departmental chairman or director, assigns the student to the instructor who will serve as the student's tutor in honors work.

At the beginning of each semester, the student files with the committee a brief plan of his program of honors work for the semester. Near the close of the semester, he files with the committee a general statement of work accomplished and a report dealing with his reading, laboratory work, or project. At the close of the senior year, a final essay, laboratory report, or completed creative project is submitted to the committee. At the end of each semester a grade for the honors course is sent to the registrar by the tutor. A student registered for honors work who at the end of any semester has not maintained a scholarship quotient of 3.0 or who has received a grade below B in his honors course is dropped as

a candidate for special honors but retains any credit earned by his honors work.

All general requirements for the degree sought by the student will be fulfilled either before or while the student is registered in honors work. An honors student may register for from three to eight semester hours of honors work each semester as a part of his student load. Such work may be done tutorially, in special seminars of honors students, or in courses numbered in the 300 group.

A final examination in the field studied is given not later than a week before graduation. A student who does not secure a grade of B in the final examination is disqualified for special honors in the field but retains any credit earned by his honors work. Candidates for the degree with honors will be distinguished from other graduates in the commencement program.

COMMENCEMENT. Degrees and diplomas are granted at the end of each session. Commencement exercises are held at the end of the second semester, in June; and at the end of the summer session, in August. Informal exercises with a presentation of diplomas are held at the termination of the other sessions. Attendance at graduation exercises is required, except for those students who have been given permission to graduate in absentia. A candidate may make application for excuse from commencement with the dean of his college. The application form which is filed with the registrar includes instructions for the mailing of the diploma.

A SECOND BACHELOR'S DEGREE. A student who has received a degree and who desires a second bachelor's degree must complete the subject requirements of the second degree, at least 30 semester hours beyond the first degree requirements with a scholastic average of 2.0, and an additional semester of residence.

COLLEGES AND DIVISIONS

ORGANIZATION

Ohio University was founded and conducted during the early years of its existence as a college devoted to the arts and sciences. It remained a liberal arts college throughout the nineteenth century with only gradual expansion and few changes in policy. By the turn of the century, however, a growing need for teachers called for a professional educational program. In 1902, Ellis Hall was completed and the university was expanded to include a college for the training of teachers. Meanwhile, the general tendency for higher education in many fields had been definitely manifesting itself in increased enrollment and the demand for a broader curriculum. This was particularly noticed in the fields of electrical engineering and commerce which had been introduced in the College of Arts as early as 1890 and 1893 without perceptible effect upon the organization of the university.

In the years of constant growth that followed, the university at all times endeavored to keep pace with the growing need, until it became evident that the traditional division into a College of Liberal Arts and a College of Education no longer represented the curricula offered in the university. In the autumn of 1935, the University College was established as an aid to freshmen in making the difficult adjustment from high school to college. Further reorganization has followed in accord with the enlarged offerings until at present the university comprises the following major units and component parts:

THE UNIVERSITY COLLEGE

THE COLLEGE OF APPLIED SCIENCE

THE SCHOOL OF HOME ECONOMICS

THE COLLEGE OF ARTS AND SCIENCES

THE COLLEGE OF COMMERCE

THE SCHOOL OF JOURNALISM

THE COLLEGE OF EDUCATION

THE COLLEGE OF FINE ARTS

THE SCHOOL OF DRAMATIC ART AND SPEECH

THE SCHOOL OF MUSIC

THE SCHOOL OF PAINTING AND ALLIED ARTS

THE GRADUATE COLLEGE

THE DIVISION OF PHYSICAL WELFARE
THE DIVISION OF MILITARY SCIENCE AND TACTICS
THE UNIVERSITY EXTENSION DIVISION
THE SUMMER SCHOOL

THE BRANCHES

THE UNIVERSITY COLLEGE

All freshmen enroll in the University College. Thus, the college is concerned primarily with the problems of first-year students—their courses of study, and their guidance during the period of transition from high school to college. The freshman year in the University College and the following three years in one of the degree colleges represent the normal time required for completion of any of the baccalaureate degree programs.

The University College aims to provide an educational program that will best meet the individual needs of the student. No prescribed course of study is required of all. The courses in the freshman year are planned so as to provide studies that are generally recognized as most essential to the educated person. Students are advised to consider it a year of broad preparation for later specialization. General course requirements for each student are determined so as to complement the work done in high school and so as to take into account the educational objective of the student.

General requirements of the University College are determined as follows:

1. English Composition—Eng. 3-4.

Required of all students. Students excused from taking Eng. 3 will fulfill the requirement by taking Eng. 4 only.

The University College is concerned to have all students achieve proficiency in fundamentals of English and expression. Normally, students may complete the requirement by taking Eng. 3-4. Those who place low on the English Placement Test given all entering freshmen take Eng. 1, three hours a week, without credit, then complete Eng. 3-4 in their second and third semesters in the university. Those who place high on the examination may be excused from Eng. 3 and fulfill the requirement by taking Eng. 4 only.

2. Fundamentals of Speech—Speech 1.

Required of all entering students in the second semester of the freshman year except for those who are excused on the basis of a placement examination given by appointment.

3. Physical Welfare—P. W. 1-2.

The student excused from a physical activity course substitutes a health course. For detailed statement concerning this requirement see page 74.

4. Military Science (Men)—Mil. Sci. 1-2.

Veterans and other demobilized military personnel are excused from the requirement, see page 75.

- 5. One Year in Each of Two of the Following Groups and Completion of the Requirement, If Any, As Indicated for Each Group:
 - A. Humanities: (a) A foreign language; (b) Phil. 85—Principles of Reasoning, and Phil. 87—Life's Meaning and Moral Philosophies; (c) F. A. 17-18—Introduction to the Fine Arts.

Students who have had two years of foreign language in high school have no further requirement in the Humanities. Students with less than two years of foreign language in high school are required to take a year in one subject in the Humanities group.

B. Mathematics: Elementary Algebra, Plane Geometry, Solid Geometry, Intermediate Algebra, Freshman Mathematics, and Mathematics of Finance.

For students who have had both elementary algebra and plane geometry in high school, there is no mathematics requirement. Students who have had no algebra or plane geometry in high school take Math. 1—Elementary Algebra, and Math. 3—Plane Geometry. Students who have had one year of algebra and no plane geometry take Math. 3.

C. Natural Sciences: Astronomy, Botany, Chemistry, Geology, Physics, Zoology.

Students who have had two years of laboratory science in high school have no further requirements. (High school courses such as general science and senior science are excluded.) Students with less than two full years of laboratory science in high school take a year in one science.

D. Social Science: Economics, Geography, Government, History, Psychology, Sociology.

Students are required to have two years in any combination of courses taken in high school and college together.

The student normally plans his schedule so as to complete these requirements in the freshman year. The student who has chosen the degree course he wishes ultimately to pursue is advised to select courses from among those offered in the four groups that are especially recommended for the particular curriculum he expects to follow. The student who has not decided upon the course he may wish ultimately to pursue will find that the University College program affords him an opportunity to explore various fields of knowledge so that a wiser final choice may be made. No student's schedule may include more than five semester hours in courses not included in the general requirements or in one of the four groups.

The guidance program aims to encourage individual initiative and increasing assumption of responsibility by the student. Every student is assigned to a counselor, usually a member of the faculty selected from the division of the university in which the student is chiefly interested. Throughout the year the student is expected to confer with his counselor from time to time as occasion demands. All freshmen are required to report to their counselors at the close of the seventh and thirteenth weeks of the semester to receive and discuss their grade reports.

RELEASE TO DEGREE COLLEGE. When a student has 25 semester hours of credit, exclusive of credit for military service, has completed all University College requirements, and is not on probation, he is released to the degree college of his choice. When a student has 25 semester hours, exclusive of credit for military service, and is not on probation, but has not completed all University College course requirements, he is advanced to the degree college of his choice. His release to the degree college is subject to completion of all remaining course requirements.

REGISTRATION. All entering freshmen must register and participate in the orientation program, September 15-18, 1947. A copy of the complete schedule of events is mailed to each new student before regis-

tration. Announcements for registration in the second semester and summer session are made to students registered in the college directly by mail and through the student newspaper, the *Ohio University Post*.

TWO-YEAR ELECTIVE PLAN. The University College makes possible plans of study for those students who do not intend to pursue a four-year degree program or who can spend only one or two years in the university.

Before he registers for a two-year elective program the student confers with his counselor and prepares a statement giving his educational objective, or an outline of the courses he proposes to take, with the reasons for his choice. The dean of the University College finally approves the two-year elective program when he is satisfied that the best interests of the student are being served.

Credit for courses taken on the two-year elective basis may be counted toward a four-year degree course, subject to approval of the dean of the degree college in which the student later enrolls. The two-year elective student who later transfers to a degree college is required to complete all University College course requirements.

On completion of 64 semester hours of elective study and being in good standing, the student is awarded a certificate upon application and the payment of a fee of \$5.00.

THE COLLEGE OF APPLIED SCIENCE

The College of Applied Science offers curricula in agriculture, engineering, and home economics. These lead to Bachelor of Science degrees in the respective fields. Also, under the supervision of the college are the non-degree departments of aviation, engineering drawing, and industrial arts.

Candidates for degrees must fulfill the general graduation requirements of the university. Candidates for the degree of Bachelor of Science in Agriculture or Bachelor of Science in Home Economics complete a minimum of 124 semester hours (plus any physical welfare requirements in excess of 4 hours) with a point-hour ratio of 2.0 in all hours attempted. Candidates for a Bachelor of Science degree in engineering complete a minimum of 140 semester hours (plus any physical welfare requirements in excess of 4 hours) with a point-hour ratio of 2.0 in all hours attempted. In each case the total hours include the requirements of the University College and the particular curriculum pursued.

STUDENTS WHO DESIRE TO TEACH. Students who desire to teach agriculture, industrial arts, or home economics may enroll for the degree of Bachelor of Science in Education offered by the College of Education. However, students who enroll in the College of Applied Science may complete the requirements for the degree of Bachelor of Science in Agriculture or Bachelor of Science in Home Economics and secure a teach-

ing certificate by satisfying the requirements in education specified by the State Department of Education for the field in which the student desires to teach. The requirements specified by the State Department of Education are listed under the heading "Teaching Certificates" on page 128.

BACHELOR OF SCIENCE IN AGRICULTURE

Three curricula are offered in agriculture. Each leads to the degree of Bachelor of Science in Agriculture.

The curriculum in *General Agriculture* is designed for those who desire a broad agricultural training rather than an intensive specialization in any one phase of the field. The practical application of scientific agriculture is stressed in the laboratories and in the training received on the University Farm.

The curriculum in *Preforestry* is offered as a part of the conservation program of the university. It enables the student to meet the requirements of a standard school of forestry with only a small amount of additional training in a summer camp or in a forestry school. A student pursuing this curriculum may choose to meet the requirements for the Bachelor of Arts degree in botany. This can be done with the consent of the student's adviser and the proper selection of approved electives.

The curriculum in *Soil Conservation* also is offered as a part of the conservation program of the university. It is designed for those who wish to prepare for work in the various phases of soil conservation.

For another curriculum in natural resources conservation, see page 101.

CURRICULA IN AGRICULTURE

The university requirements pertaining to English composition, physical welfare, military science, speech, and freshman lectures are not indicated in the curricula below. See pages 74, 75, and 79.

GENERAL AGRICULTURE

1
ide: Second Semester Hours General Agriculture
n
4—Silviculture 3 22—Vegetable Gardening 3 27—Types, Breeds, and Management of Poultry 3 2 or 4—General Chemistry 4 —General Zoology 3
. 16
04—Small Fruits 3 09—Landscape Gardening 3 05—Farm Management 3 19—General Entomology 4 1 1—Woodworking I or 55—Marketing Principles 3 16
000

Senior P	rogram
First Semester Hours	Second Semester Hours
Agr. 115—Soils and Fertilizers 3 Agr. 124—General Dairying 3 Agr. 201—Farm Practices 3 Approved Electives 7	Agr. 116—Field Crops 3 Agr. 202—Farm Practices 3 Approved Electives 10
Agr. 201—Farm Practices 3	Approved Electives10
Approved Electives	16
16	
PREFOR	ESTRY
Freshman	Program
The University College program sho	
Bot. 1—General Botany 3 Math. 5—Freshman Mathematics 5	Agr. 1—General Agriculture 3
Sophomore	Program
Chem. 1 or 3—General Chemistry 4 Bot. 107—Classification of Plants 3 Eng. 101—Sophomore English Literature 3 Zool. 3—General Zoology 3 Electives 3	Chem. 2 or 4—General Chemistry 4 Geog. 132—Conservation of Natural
Bot. 107—Classification of Plants 3 Eng. 101—Sophomore English Literature 3	Resources
Zool. 3—General Zoology 3	Bot. 117—Dendrology 3 Zool. 4—General Zoology 3 Electives 3
	Electives 3
16	 16
Toutes 10	
Junior F Agr. 3—Forestry 3	
Agr. 3—Forestry 3 Bot. 205—Plant Physiology 4 Geol. 125—Physical Geology 3	Agr. 4—Silviculture 3 Ind. A. 152—Farm Shop 3
E. D. 1—Engineering Drawing 2	Geol. 126—Historical Geology
E. D. 1—Engineering Drawing 2 C. E. 10—Plane Surveying 3	C. E. 110—Topographic Surveying 2 Electives 3
15	_
	16
Senior F	rogram
Agr. 109—Landscape Gardening 3 Agr. 110—Nursery Practices 3	Agr. 226—Forest Survey 3 Bot. 221—Plant Pathology 3 Electives 10
Agr. 110—Nursery Practices 3 Agr. 115—Soils and Fertilizers 3 Zool. 119—General Entomology 4 Bot. 203—Principles of Plant Ecology 4	Electives10
Bot. 203—Principles of Plant Ecology 4	16
$\overline{17}$	
SOIL CONS	ERVATION
Freshman	Program
The University College program sho	
Bot. 1—General Botany 3 Math. 5—Freshman Mathematics 5	Bot. 2—General Botany 3 Agr. 1—General Agriculture 3
Sh	Dwarman
Chem. 1 or 3—General Chemistry ——— 4 Geol. 125—Physical Geology ———— 3 Eng. 101—Sophomore English Literature 3 Geog. 132—Conservation of Natural	Chem 2 or 4-General Chemistry
Geol. 125—Physical Geology 3 Eng. 101—Sophomore English Literature 3	Geol. 126—Historical Geology 3 Agr. 1—General Agriculture 3
Geog. 132—Conservation of Natural	Geol. 126—Historical Geology 3 Agr. 1—General Agriculture 3 C. E. 10—Plane Surveying 3 Electives 3
Resources 3 Electives 3	
. 16	16
Junior F	racram
Agr. 115-Soils and Fertilizers 3	Agr. 117—Soil Conservation 3 Bot. 203—Principles of Plant Ecology_ 4
Bot. 107—Classification of Plants 3 Phys. 5—Introduction to Physics 4	Bot. 203—Principles of Plant Ecology 4 Agr. 135—Farm Management 3
Zool. 3—General Zoology 3	Agr. 116—Field Crops3
Electives 2	Electives3
16	16
Senior I	Program Acm 2 Forestry
Bot. 117—Dendrology 2 Bot. 221—Plant Pathology 3 Zool. 119—General Entomology 4 Lod. A. 151 2	Agr. 3—Forestry 3 Ind. A. 152—Farm Shop 3 Agr. 201 or 202—Farm Practices 3
Zool. 119—General Entomology 4 Ind. A. 151—Farm Shop 3	Agr. 201 or 202—Farm Practices 3 Electives 7
Electives 3	
. 16	16

AVIATION

In 1939, in cooperation with the Civil Aeronautics Administration, Ohio University began the training of civilian students in aviation under the Civil Pilot Training Program. Later, Army and Navy cadets were trained under the C.A.A. War Training Service. These federally-sponsored and subsidized programs have been discontinued. In 1944, Ohio University reopened its aviation facilities by offering to its students pilot training courses and an Aeronautical Structural curriculum as an option under Civil Engineering. These, together with related courses offered in other divisions of the university, constitute an impressive program in aviation. (See aviation courses on page 157 and Aeronautical Structural Option under Bachelor of Science in Civil Engineering on page 87).

The pilot training program consists of ground courses conducted on the campus and flying courses conducted by a C.A.A.-certified flying school at the Ohio University Airport. The airport is two and one-half miles from the campus. Transportation to and from is furnished by the university. Flight school trainees are insured against public liability, property damage, and accidents; and every precaution is taken to assure their safety.

Any student is eligible to enroll in the ground courses. A registrant for the flying courses must present to the co-ordinator of the Ohio University Flying School a C.A.A. medical certificate obtained from a physician, and, if under 21 years of age, the written consent of his or her parents. Students interested in flying courses should direct inquires to the Co-ordinator of the Ohio University Flying School or to the Office of the Dean, College of Applied Science.

ENGINEERING

Six curricula are available in engineering. Each leads to a Bachelor of Science degree. The curricula are in: Architectural Engineering; Civil Engineering, including an Aeronautical Structural Engineering option; Electrical Engineering; Industrial Engineering and Mechanical Engineering.

Students intending to follow an engineering curriculum should plan to present for admission to the university subjects meeting the Area requirements of the University College, especially those in the Area of Mathematics which include one year each of algebra and geometry. See page 80. Such students also should check their intended choice of an engineering curriculum on the official application form for admission to the university. These two precautions will avoid deficiencies and assure proper guidance in the student's University College program of study.

CURRICULA IN ENGINEERING

The university requirements pertaining to English composition,

physical welfare, military science, speech and freshman lectures are not indicated in the engineering curricula that follow. See pages 74, 75, and 79.

Freshman Program

(For all engineers)

The University College program should include:

	First Semester	Hours	Second Semester	Hours
E. D. 1-Eng	—General Chemistry ineering Drawing shman Mathematics	2	Chem. 2 or 4—General Chemistry E. D. 2—Engineering Drawing*Math. 6—Freshman Mathematics	2

BACHELOR OF SCIENCE IN ARCHITECTURAL ENGINEERING

The curriculum for this degree is planned to give the student a broad fundamental background in architecture and structural engineering. The elective hours of study may be used to increase either the engineering or architectural content of the curriculum, or to broaden it by study in other divisions of the university.

Freshman Program

(See above)

Sophomore Program		
First Semester Hours	Second Semester Hours	
Math. 117—Differential Calculus 4 Phys. 113—General Physics 4 E. D. 3—The Slide Rule 1 E. D. 101—Descriptive Geometry 3 P. A. A. 45—Methods in Representation 2 Arch. 55—Fundamentals of Architecture 3	Math. 118—Integral Calculus 4 Phys. 114—General Physics 4 C. E. 10—Plane Surveying 3 C. E. 121—Applied Mechanics 3 Arch. 56—Fundamentals of 3 Architecture 3 17	
Junior l	rogram	
C. E. 124—Strength of Materials 3 C. E. 126—Testing Laboratory 1 C. E. 130—Structural Analysis 4 Arch. 155—Fundamentals of 4 F. A. 175—History of Architecture 3 Electives 3	C. E. 230—Structural Analysis	
Senior I	rogram	
C. E. 129—Soil Mechanics 3 C. E. 131—Structural Design 4 Ec. 101—Principles of Economics 3 Arch. 179—Architectural Materials 2 Arch. 185—Architectural Problems 3 Electives 3	C. E. 132—Civil Engineering Structures 4 C. E. 177—Engineering Economy 3 Ec. 102—Principles of Economics 3 Arch. 183—Architectural Equipment 2 Arch. 186—Architectural Problems 3 Electives 3 18	
Suggested Electives:		
C. E. 123—Engineering Materials 2 E. E. 129—Circuits and Machinery 6 E. E. 133—Illuminating Engineering 2	E. E. 225—Acoustics 3 II. E. 105—Engineering Thermodynamics 3 III. E. 203—Heating, Ventilating and Air Conditioning 4	

^{*}May be omitted by architectural engineers.

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

The curriculum for this degree is planned to give the fundamental training necessary to a broad understanding of the profession. following fields are studied: highway and railroad layout and construction, hydraulics, structures and foundations, surveying, and water supply and sanitation. Courses which discuss the economic and legal aspects of engineering also are required. Although the program is comprehensive, it allows the student elective hours of study during the last two years. By a proper choice of these electives he may extend his study of one or more of the several fields discussed above, or he may pursue further the legal or business aspects of engineering, or he may broaden himself in a more general way by a judicious selection of courses in various divisions of the university.

Freshman Program

(See page 85)

Sophomore Program		
First Semester	Hours	Second Semester Hours
Ec. 101—Principles of Economics Math. 117—Differential Calculus Phys. 113—General Physics Geol. 133—Engineering Geology E. D. 3—The Slide Rule E. D. 101—Descriptive Geometry	4 3 1	Ec. 102—Principles of Economics 3 Math. 118—Integral Calculus 4 Phys. 114—General Physics 4 C. E. 10—Plane Surveying 3 C. E. 121—Applied Mechanics 3
	Junior P	rogram
C. E. 110—Topographic Surveying C. E. 122—Applied Mechanics C. E. 124—Strength of Materials C. E. 126—Testing Laboratory C. E. 130—Structural Analysis E. E. 129—Circuits and Machinery Electives	2 3 3	C. E. 125—Engineering Problems 8 C. E. 177—Engineering Economy 3 C. E. 226—Structural Analysis 4 E. E. 120—Circuits and Machinery 3 Bus. L. 159—Business Law 3 Electives 3
	18	
	Senior F	=
C. E. 111—Route Surveying C. E. 129—Soil Mechanics C. E. 131—Structural Design C. E. 141—Fluid Mechanics C. E. 151—Route Engineering Electives	3 2 2	C. E. 182—Civil Engineering Structures 4 C. E. 142—Sanitary Engineering 4 C. E. 152—Highway Engineering 2 C. E. 202—Water Power Engineering 3 Electives 5
18		
Suggested Electives:		
	Gene	eral
C. E. 211—Photogrammetry C. E. 213—Advanced Surveying Prob M. E. 105—Engineering Trermodyna M. E. 106—Heat Power Engineering. Geog. 132—Conservation of Natural Resources	dems 2 mics 3	Geol. 126—Historical Geology — 3 Geol. 125—Elementary Mineralogy 2 Geol. 129—Elementary Petrology 2 Math. 12—Descriptive Astronomy 3
Sanitary Engineering		
Chem. 105—Qualitative Analysis Chem. 109—Quantitative Analysis	3 5	Chem. 115—Organic Chemistry 3 Zool. 141—Elementary Bacteriology 4
Structural Engineering		
C. E. 132—Aircraft Structures C. E. 224—Advanced Strength of Materials		Math. 204—Advanced Calculus 3 Math. 215—Differential Equations 3

AERONAUTICAL STRUCTURAL ENGINEERING OPTION

The following curriculum, presented as an option under civil engineering, is designed to give the student a thorough training in structural engineering as applied to aircraft. It requires additional work in mathematics and structural engineering, aerodynamics, and aircraft engines. The elective hours enable the student to broaden his technical training by including some of the civil engineering courses omitted in this option, or by choosing technical courses in other fields, thus increasing his opportunities for employment upon graduation. On the other hand, the elective feature of the program may be used to obtain a more general educational background.

Freshman Program (See page 85) Sophomore Program First Semester Hours Second Semester Ec. 102—Principles of Economics 3 Math. 118—Integral Calculus 4 Phys. 114—General Physics 4 C. E. 10—Plane Surveying 3 C. E. 121—Applied Mechanics 3 Ind. A. 26—Shop Engineering 2 101-Principles of Economics ____ 3 Math. 117—Differential Calculus 4 Phys. 113—General Physics 4 E. D. 3—The Slide Rule 1 E. D. 3—The Slide Rule ____ E. D. 101—Descriptive Geometry Ind. A. 121—Pattern, Forge and Foundry _____ ____ 3 Junior Program C. E. 124—Strength of Materials _____ 3 C. E. 126—Testing Laboratory _____ 1 C. E. 130—Structural Analysis _____ 4 E. E. 129—Circuits and Machinery ____ 3 Math. 215—Differential Equations _____ 3 C. E. 122—Applied Mechanics C. E. 125—Engineering Problems C. E. 230—Structural Analysis E. E. 130—Circuits and Machinery Math. 204-Advanced Calculus ____ Electives Electives _____ 18 Senior Program C. E. 131—Structural Design 4 C. E. 141—Fluid Mechanics 3 C. E. 205—Aerodynamics 3 C. E. 224—Advanced Strength of C. E. 123—Engineering Materials _____ 2 C. E. 133—Aircraft Structures _____ 4 M. E. 102—Machine Design _____ 2 M. E. 109—Aircraft Engines _____ 3 Bus. L. 185—Aviation Law _____ 2 Materials M. E. 101-Machine Design _____ 2 Electives _____ 5 Suggested Electives: Avn. 99—Controlled Private Flying ... 1 Avn. 100—Elementary Aviation ... 2 Avn. 121—Aerodynamics and Regulations Regulations 2 Avn. 122—Aeronautical Navigation 2 Avn. 122—Aeronautical Navigation 2 Avn. 129—Secondary Course 1 Avn. 130—Cross Country 1 Avn. 131—Commercial Qualifying 1 Avn. 132—Instructors Course 1 Avn. 133—Instrument Flying 1 C. E. 153—Airport Engineering 3 Ind. A. 124—Machine Shop 3

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

It is the aim of the department of electrical engineering to provide the background of general information and basic knowledge of principles which enables a student to analyze situations and to think intelligently and effectively in the field. The curriculum to be pursued has grown out of the belief that these are the most essential foundation elements for Electives . ___

Laboratory

the various specialized fields, as well as for early advancement in practical electrical engineering. A choice of electives offers a limited amount of specialization in either power engineering or radio and communication engineering.

> Freshman Program (See page 85)

Sophomore Program Hours Second Semester Hours C. E. 10—Plane Surveying* Ec. 102—Principles of Economics Ind. A. 26—Shop Engineering Math. 118—Integral Calculus Phys. 114—General Physics Electives _____ 18 18 Junior Program C. E. 121—Applied Mechanics _____ 3 E. E. 143—Electrical Engineering ____ 4 E. E. 145—Dynamo and Measurements C. E. 122—Applied Mechanics C. E. 124—Strength of Materials E. E. 144—Electrical Engineering E. E. 146—Dynamo and Measurements E. E. 149—Electrical Measurements Theory M. F. 105 125 Laboratory E. E. 150-Electrical Measurements M. E. 105—Engineering Thermodynamics 3 Math. 215—Differential Equations _____ 3 Theory M. E. 106-Heat Power Engineering* Electives _

2 4 4

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3

19

Senior I	rogram
E. E. 203—Communication Engineering	E. E. 204
and Advanced Circuit Analysis_ 4 E. E. 243—Electrical Engineering 4	and E. E. 244—
E. E. 245—Electrical Engineering Lab 2	E. E. 246-
E. E. 271—Engineering Electronics 3 E. E. 207—Electrical Transients and	E. E. 272— Eng. 114—]
Relays (3) or	E. E. 210—
E. E. 209—Ultra High Frequency Techniques (3) or	Teo E. E. 235—
E. E. 225—Acoustics (3) 3	Por
Electives3	E. E. 248— Elective —
19	221000176 ==

rogram
E. E. 204—Communication Engineering and Advanced Circuit Analysis—4
E. E. 244—Electrical Engineering 4
E. E. 246—Electrical Engineering Lab 2
E. E. 272—Engineering Electronics 3
Eng. 114—Engineering English 2
E. E. 210-Ultra High Frequency
Techniques (3) or
E. E. 235—Electrical Transmission of
Power (3) or
E. E. 248—Electrical Design (3) 3
Elective1
19

Other Suggested Electives:	
C. E. 141-Fluid Mechanics 3	
Ec. 209—Public Utilities 3 E. E. 101—Fundamentals of Radio 3	
E. E. 133—Illuminating Engineering 2	
E. E. 211—Advanced Radio Laboratory 2	
E. E. 291—Studies in Electrical Engineering 1	
Phys. 225—Adv. Physics Laboratory2-4	

First Semester

Ec. 210-Transportation and Public
Utility Problems 2
E. E. 102-Fundamentals of Radio 3
C. E. 126—Testing Laboratory 1
C. E. 177—Engineering Economy 3
M. E. 108—Heat Power Laboratory 2
Math. 204-Advanced Calculus 3
Phys. 226—Adv. Physics Laboratory2-4

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

The program for this degree is designed to give a thorough background of those engineering fundamentals which should be a part of the equipment of the engineer who is interested in industrial production. This study is supplemented by a program of courses dealing with some of the problems of industrial management. The elective hours distributed throughout the last three years enable the student to increase either the commerce or engineering content of the program, or to extend it by

^{*}Or approved electives.

study in other divisions of the university. At least six of the elective hours must be engineering subjects.

Freshman Program (See page 85) Sophomore Program

First Semester	Second Semester Hours	
19	18	
Senior F	rogram	
Ec. 212—Administration of Personnel 3 M. E. 105—Engineering Thermodynamics 3 Bus. L. 159—Business Law 3 Stat. 155—Business Statistics 6	M. E. 106—Heat Power Engineering 3 Eng. 114—Engineering English 2 Mkt. 226—Industrial Purchasing and Industrial Marketing 3 Mgt. 221—Time and Motion Study 3 C. E. 177—Engineering Economy 3 Electives 4	
The following suggested electives are grouped for convenience only. The student may choose from one or more of the fields.		
Manag		
Acct. 125—Intermediate Accounting 3 Acct. 175—Cost Accounting 3 Stat. 203—Variables 3	Acct. 224—Standard Cost and Budgets 3 Bus. L. 175—Government and Business 3 Ec. 238—Labor Legislation 2	
Mark	eting	
Advt. 155—Advertising Principles 3 Stat. 203—Variables 3	Bus. L. 175—Government and Business 3 H. Ec. 256—Economics of Consumption. 3 Mkt. 158—Marketing Problems 3 Mkt. 171—Principles of Personal Selling 2 Mkt. 176—Sales Management 2	
Production Supervision		
Ind. A. 1—Woodworking I 3 Ind. A. 2—Woodworking II 3 Ind. A. 7—Sheet Metal 3 Ind. A. 105—Materials and Finishes 3 Ind. A. 117—Shop and Machine Maintenance 2	Ind. A. 129—Welding 2 Psych. 133—Industrial Psychology 2 Ec. 238—Labor Legislation 2 P. W. 127—First Aid 2	
Technical		
C. E. 125—Engineering Problems 3 C. E. 141—Fluid Mechanics 3 E. E. 203—Communication Engineering and Advanced Circuit Analysis 4 C. E. 224—Advanced Strength of 3 Materials 3	E. E. 204—Communication Engineering and Advanced Circuit Analysis. 4 E. E. 285—Electrical Transmission of Power	

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

The curriculum in mechanical engineering emphasizes machine design and heat engineering. The first two years, which parallel those in other engineering curricula, are followed by comprehensive courses in the design of all types of mechanical equipment, and the study of thermodynamics, boilers, steam engines, steam turbines, internal combustion engines, refrigeration, and air conditioning. Work in other fields of engineering such as hydraulics and electrical engineering also is included to give a well-rounded curriculum. Twelve credit hours of electives allow the student further opportunity to broaden his training.

Freshman Program (See page 85) Sophomore Program

First Semester Hours	Second Semester Hours
Junior P	C
Senior P	rogram
C. E. 141—Fluid Mechanics 3 C. E. 177—Engineering Economy 3 M. E. 103—Machine Design 3 M. E. 201—Refrigeration and Internal Combustion Engines 4 Electives 5	M. E. 104—Machine Design 3 M. E. 203—Heating, Ventilating and
Suggested Electives: C. E. 125—Engineering Problems	Math. 215—Differential Equations 3 Ec. 209—Public Utilities 3 M. E. 109—Aircraft Engines 3 C. E. 205—Aerodynamics 3

BACHELOR OF SCIENCE IN HOME ECONOMICS

The School of Home Economics attempts to integrate art and science for the improvement of home and family life, and to provide the means of economic independence in occupations related to the activities of the home. There are six curricula in home economics, each of which includes at least 40 hours of home economics and supplementary courses which are required of students qualifying for the degree of Bachelor of Science in Home Economics.

The curriculum in *General Home Economics* is planned to develop an appreciation and an understanding of the activities and the relationships of family life, and to equip women for the efficient and successful administration of a home. The nursery school and home management houses offer opportunities for experiences in the guidance of young children and the management aspects of homemaking.

The *Home Economics and Journalism or Radio* curriculum prepares the student for work in the field of journalism. It is planned for those interested in promotion activities with newspapers, magazines, or radio programs.

The curriculum for *Home Economics Education* provides training for those who wish to teach in junior or senior high schools, vocational schools, and adult education classes. Seniors in home economics may participate in activities of the vocational educational program and qualify for certification to teach in vocational schools.

The curriculum in Family Relationships and Child Development is planned to provide training for home economics positions in nursery schools and welfare agencies caring for young children.

The curriculum in *Foods and Nutrition* is planned for students who are interested in experimental foods, research in foods or nutrition, and dietetics. This curriculum fulfills the requirements of the American Dietetic Association for student dietitians who wish to train for food service in hospitals, hotels, cafeterias, or college residence halls. Students who wish to become dietitians are advised to take a fifth year of apprentice training in one of the institutions approved by the American Dietetic Association.

The curricula for *Home Economics in Business* are planned to provide a background for those who are interested in the business phases of home economics. Specialization is offered in three fields. The curricula in Clothing and Textiles and Home Planning and Decoration offer training for fashion and merchandising positions in the manufacturing and distributing divisions of the textile and clothing industry, and for the consultants in home decoration problems. The Food Demonstration curriculum provides training for promotion services in connection with public utilities and manufacturers or retailers of foods or household equipment.

The School of Home Economics also has set up a group of courses which may be elected by students majoring in other departments. This group is planned especially for women students desiring some basic training in the activities related to successful management of a home.

CURRICULA FOR VARIOUR FIELDS IN HOME ECONOMICS

The university requirements pertaining to English composition, physical welfare, military science, speech, and freshman lectures are not indicated in the following curricula. See pages 74, 75, and 79.

Freshman Program

The University College program should include H. Ec. 51—Orientation in Home Economics, and as many of the following courses as possible:

First Semester Hours	Second Semester Hours			
Chem. 1 or 3—General Chemistry (4)† or Zool. 3—General Zoology (3)† or Bot. 1—General Botany (3)†	Chem. 2 or 4—General Chemistry (4)† or Zool. 4—General Zoology (3)† or Bot. 2—General Botany (3)†3-4 Soc. 1—General Sociology* 3 H. Ec. 21—Selection and Preparation of Food 3			
GENERAL HOM	E ECONOMICS			
Sophomore	Program			
H. Ec. 11—Clothing Selection and Construction (3) or H. Ec. 21—Selection and Preparation of Food (3)	H. Ec. 72—Home Nursing and Family Health 2 H. Ec. 110—Textiles* 3 H. Ec. 121—Meal Planning and Serving* 3 H. Ec. 131—House Selection and Furnishing* 3 P. A. A. 102—Applied Design 3 Electives 2 16			
Junior Program				
H. Ec. 171—Introduction to Child Development 2 H. Ec. 123—Essentials of Nutrition* 3 Zool. 141—Elementary Bacteriology* 4 Electives 7 16	H. Ec. 272—Child Development 2 H. Ec. 216—Clothing Design and Construction* 3 Electives 11 16			
Senior P	rogram			
H. Ec. 251—Home Management* 2 H. Ec. 253—Home Management Lab.* _ 3	H. Ec. 256—Economics of Consumption* 3 Electives13			

HOME ECONOMICS AND JOURNALISM OR RADIO

16

H. Ec. 273-Family Relationships* ____ 3

Electives _

Students wishing to train in the field of journalism and/or radio will be advised individually. Their program will follow the courses outlined in the curriculum for General Home Economics with a few modifications. To these will be added the following basic courses in journalism and radio: Jour. 103—Introduction to News Writing; Jour. 107—Newspaper Reporting; Radio 179—Introduction to Radio; Radio 180—Radio News Writing and Editing; and Jour. 222—Feature and Magazine writing.

Suggested electives for students desiring to stress journalism include: Jour. 111—Reporting Practice; Jour. 117—Newspaper Editing; Jour. 121—Editing Practice; Jour. 140—The Community Newspaper; Jour. 223—Advanced Feature and Magazine Writing; Jour. 227—Public Relations Techniques; and Jour. 228—Public Relations.

Suggested electives for students desiring to stress radio include: Radio 185—Radio News Practice; Radio 216—Writing for Radio; and Radio 247—Radio Workship.

^{*}May be taken either semester.

†Chemistry is required of those majoring in Foods and Nutrition, Clothing and Textiles, or Commercial Foods. Students majoring in Home Economics Education or Family Relationships and Child Development may take either zoology or chemistry. Chemistry, botany, or zoology will meet the requirements for those specializing in Home Economics and Journalism or in Home Planning and Decoration.

HOME ECONOMICS EDUCATION

Students planning to teach home economics follow the curriculum for General Home Economics. Additional courses required for certification are listed below with suggestions as to the year in which they should be taken.

First Semester Hours Psych. 5—Educational Psychology 3	Second Semester Hours			
I sych, o Endeational Esychology 22222 0	Education4			
Junior Pr	rogram			
H. Ec. 227—Quantity Cookery* 3				
Senior Pr	rogram			
H. Ec. 168—Teaching of Home Economics* 3 Ed. 182—Observation and Participation* 3 Ed. 185—Student Teaching in Special Subjects* 4	Note			
Note: These three courses should be taken concurrently. They should not be taken in the same semester as H. Ec. 251 and 253.				
Suggested Electives: H. Ec. 268b—Demonstration Techniques_ 2 Jour. 110—Writing for Publication See pages 128 to 132 for teaching minors				
FAMILY RELATIONSHIPS AN	ND CHILD DEVELOPMENT			
Sophomore :				
H. Ec. 11—Clothing Selection and Construction (3)	Soc. 104—Community Organization** _ 3			
, 16				
Junior Pr	rogram			
Development	H. Ec. 241—Nutrition Work with 2 Children 2 H. Ec. 272—Child Development 2 J. Ec. 273—Family Relationships 3 Soc. 224—Child Welfare 3 Soc. 223—Poverty and Economic 3 Insecurity 3 Electives (See note) 3			
Senior Pr	rogram			
H. Ec. 256—Economics of Consumption* 3 H. Ec. 277—Techniques with Young Children 3 Soc. 243—Child Welfare Services (2) or Soc. 245—Family Welfare Services (2) 2 H. Ec. 251—Home Management* 2 H. Ec. 253—Home Management Lab.* 3 Electives (See note) 3	H. Ec. 278—Administration of Group Care of Young Children 3 Soc. 244—Child Welfare Services (2) or Soc. 246—Family Welfare Services (2) 2 Electives (See note)			

Note: Recommended electives are Ed. 2—Literature for Children; Ed. 102—Play and Play Materials; and Ed. 171—Observation and Participation in Kindergarten-Primary Grades.

^{*}May be taken either semester.
**Approved substitute permitted.

FOODS AND NUTRITION

Sophomore	Program
First Semester Hours	Second Semester Hours
H. Ec. 11—Clothing Selection and Construction (3) or	Zool. 141—General Bacteriology 4 H. Ec. 121—Meal Planning and Serving_ 3 H. Ec. 110—Textiles* 3
H. Ec. 21—Selection and Preparation	H. Ec. 110—Textiles*
of Food (3) 3 Chem. 113—Organic Chemistry 4	P. A. A. 91—Design and Composition (2) or P. A. A. 125—The Arts in Everyday Life 2
Ec. 101—Principles of Economics (See note)	P. A. A. 125—The Arts in Everyday Life 2 Ec. 102—Principles of Economics
H. Ec. 105—Household Equipment* 3	(See note) 3 Electives 2
(See note) 3 H. Ec. 105—Household Equipment* 3 Acct. 101—Secretarial Accounting** (3) or Acct. 75—Elementary Accounting** (3) 3	-
16	17
Note: Ec. 3 or 15 may be substituted for Ec. 10	1, 102.
Junior P	
Zool. 135—Elements of Physiology 4	Zool. 138—Physiological Chemistry 3
H. Ec. 225—Nutrition 3 H. Ec. 227—Quantity Cookery 3 H. Ec. 171—Introduction to Child	Zool. 138—Physiological Chemistry 3 H. Ec. 242—Institutional Buying** 3 H. Ec. 131—House Selection
Development 2	and Furnishing 3 H. Ec. 272—Child Development 2 H. Ec. 226—Advanced Nutrition 3
H. Ec. 222—Experimental Cookery 3	H. Ec. 226—Advanced Nutrition 3 Electives 2
15	16
Senior F	
H. Ec. 248—Institutional Management** 3	Psych. 5—Educational Psychology (3) or
H. Ec. 248—Institutional Management** 3 H. Ec. 229—Nutrition in Disease 2 H. Ec. 251—Home Management* 2 H. Ec. 253—Home Management Lab.* _ 3	H. Ec. 168h—Teaching of Home
H. Ec. 253—Home Management Lab.* 3 Electives6	H. Ec. 256—Economics of Consumption* 3 H. Ec. 273—Family Relationships* 3 Electives 7
Electives	Electives 7
. 16	16
TOME ECONOMIC	CO IN DISCINEGO
HOME ECONOMIC	
Specialization in C	ommercial Foods
Specialization in C Sophomore	commercial Foods Program Ec. 102—Principles of Economics 3
Specialization in C Sophomore Chem. 113—Organic Chemistry 4 H. Ec. 11—Clothing Selection and	ommercial Foods Program Ec. 102—Principles of Economics 3 H. Ec. 121—Meal Planning and Serving 3
Specialization in C Sophomore Chem. 113—Organic Chemistry 4 H. Ec. 11—Clothing Selection and Construction(3) or	ommercial Foods Program Ec. 102—Principles of Economics 3 H. Ec. 121—Meal Planning and Serving 3
Specialization in C Sophomore Chem. 113—Organic Chemistry 4 H. Ec. 11—Clothing Selection and Construction(3) or H. Ec. 21—Selection and Preparation	ommercial Foods Program Ec. 102—Principles of Economics 3 H. Ec. 121—Meal Planning and Serving 3
Specialization in C Sophomore Chem. 113—Organic Chemistry 4 H. Ec. 11—Clothing Selection and Construction(3) or H. Ec. 21—Selection and Preparation	ommercial Foods Program Ec. 102—Principles of Economics 3 H. Ec. 121—Meal Planning and Serving 3
Specialization in C Sophomore Chem. 113—Organic Chemistry 4 H. Ec. 11—Clothing Selection and Construction(3) or	commercial Foods Program Ec. 102—Principles of Economics 3
Specialization in C Sophomore Chem. 113—Organic Chemistry 4 H. Ec. 11—Clothing Selection and Construction(3) or H. Ec. 21—Selection and Preparation of Food (3) 3 Ec. 101—Principles of Economics 3 Jour. 110—Writing for Publication 2 H. Ec. 105—Household Equipment 3	Program Ec. 102—Principles of Economics 3 H. Ec. 121—Meal Planning and Serving 3 H. Ec. 110—Textiles 3 P. A. A. 91—Design and Composition (2) or P. A. A. 125—The Arts in Everyday Life (2) Life (2) Speech 3—Public Speaking 2
Specialization in C Sophomore	Program Ec. 102—Principles of Economics 3 H. Ec. 121—Meal Planning and Serving 3 H. Ec. 110—Textiles 3 P. A. A. 91—Design and Composition (2) or P. A. A. 125—The Arts in Everyday Life (2) 2 Speech 3—Public Speaking 2 Electives 3 16 Togram
Specialization in C	Program Ec. 102—Principles of Economics 3 H. Ec. 121—Meal Planning and Serving 3 H. Ec. 110—Textiles 3 P. A. A. 91—Design and Composition (2) or P. A. A. 125—The Arts in Everyday Life (2) 2 Speech 3—Public Speaking 2 Electives 3 16 Togram
Specialization in C	Program Ec. 102—Principles of Economics 3 H. Ec. 121—Meal Planning and Serving 3 H. Ec. 110—Textiles 3 P. A. A. 91—Design and Composition (2) or P. A. A. 125—The Arts in Everyday Life (2) 2 Speech 3—Public Speaking 2 Electives 3 16 Togram
Specialization in C Sophomore	## Commercial Foods Program
Specialization in C	### Commercial Foods Program
Specialization in C Sophomore	## Commercial Foods Program
Specialization in C Sophomore	### Commercial Foods Program
Specialization in C Sophomore	Program Ec. 102—Principles of Economics 3 H. Ec. 121—Meal Planning and Serving 3 H. Ec. 110—Textiles
Specialization in C Sophomore	Program Ec. 102—Principles of Economics 3 H. Ec. 121—Meal Planning and Serving 3 H. Ec. 110—Textiles
Specialization in C Sophomore	Program Ec. 102—Principles of Economics 3 H. Ec. 121—Meal Planning and Serving 3 H. Ec. 110—Textiles
Specialization in Construction (3) or H. Ec. 11—Clothing Selection and Construction (3) or H. Ec. 21—Selection and Preparation of Food (3) 3 2 3 3 3 3 3 3 3 3	## Program Ec. 102—Principles of Economics
Specialization in Construction (3) or 4	## Commercial Foods Program

^{*}May be taken either semester.
**Approved substitute permitted.

Specialization in Textiles and Clothing

Sophomore First Semester Hours	Program Second Semester Hours
P. A. A. 137—Costume Design 2 H. Ec. 171—Introduction to Child	'H. Ec. 272—Child Development 2
Mkt. 205—Principles of Fashion Merchandising** 3	H. Ec. 256—Economics of Consumption* 3 H. Ec. 273—Family Relationships* 3 Phil. 111—Business and Professional Ethics 2 H. Ec. 231—Economics of Furnishings 2 Electives 6 16
Specialization in Home I Sophomore H. Ec. 11—Clothing Selection and Construction (3) or H. Ec. 21—Selection and Preparation of Food (3) — 3 P. A. A. 11—Theory of Design 2 Arch. 55—Fundamentals of Architecture 3 Mkt. 155—Marketing Principles* 3 Ec. 101—Principles of Economics 3 Electives 2 16	
P. A. A. 171—House Decoration 8	Program P. A. A. 172—House Decoration
H. Ec. 273—Family Relationships* 3 Phil. 111—Business and Professional Ethics 2 Electives 11 16	Program H. Ec. 231—Economics of Furnishings 2 H. Ec. 256—Economics of Consumption* 3 H. Ec. 251—Home Management 2 H. Ec. 253—Home Management Lab.*. 3 Electives 6 16

^{*}May be taken either semester.
**Approved substitute permitted.

Suggested electives for students interested in Home and Family Life but not majoring in Home Economics.

	First Semester	Hours	Second Semester E	Iours
H. Ec.	4—Clothing Appreciation 21—Selection and Preparation of Food	3	H. Ec. 105—Honsehold Equipment H. Ec. 110—Textiles H. Ec. 121—Meal Planning and	3
H. Ec.	23—Elementary Nutrition 71—Family Living 72—Home Nursing and	2	H. Ec. 131—House Selection and Furnishing	
11, 150.	Family Health		H. Ec. 171—Introduction to Child Development	

INDUSTRIAL ARTS

The department of industrial arts offers service courses for all students and especially for those in agriculture, engineering, education, and journalism. The offerings include the basic skills and practices of woodworking, including wood finishing and upholstery; sheet metal working, including forge work and heat treating, foundry, machine shop and welding; cement working; and printing, including offset work.

THE COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences aims to give the student an opportunity to secure a well-rounded, liberal education. The degree requirements are so arranged as to acquaint the student with the main fields of knowledge and, at the same time, to bring to light his special aptitudes and major interests. Yet, while emphasizing breadth of training, the curricula permit such a degree of specialization in the last two years as to prepare the student for work in a professional school, for graduate study, or for the duties of a vocation. Within the limits of the curriculum chosen, the student may elect to take his major and minor subjects from the course offerings of the other colleges as well as this college.

The college offers three degrees: the Bachelor of Arts, the Bachelor of Science, and the Bachelor of Science in Chemistry. The requirements for the first two degrees call for a considerable distribution of studies; yet they also permit of specialization. Indeed, they require sufficient stress in major and minor fields to insure some degree of mastery in particular fields. The requirement for the degree of Bachelor of Science in Chemistry involves considerable concentration in chemistry. In general, the distinction among the curricula for the three degrees in the College of Arts and Sciences lies in the fact that for the Bachelor of Arts degree greater emphasis is placed upon the old and new humanities, such as English, foreign languages and literature, and the social sciences; whereas, for the Bachelor of Science degree and the Bachelor of Science in Chemistry degree the chief emphasis is placed upon the natural sciences and mathematics.

THE THREE GROUPS. The fields of instruction (in some cases subjects only are included) are grouped as follows:

1. Language, Literature, Fine Arts, and Journalism Group:

Archaeology and antiquities; English, French, German, Greek, Italian, Latin, Portuguese, Romance philology, and Spanish; dramatic art, music, painting and allied arts; speech; journalism

2. Natural Science and Related Science Group:

Biological sciences: botany; Psych. 109, 201, 207; zoology Physical sciences: astronomy, chemistry, geology, physics Related sciences: agriculture, civil engineering, electrical engineering, home economics, mathematics, industrial arts

3. Social Science Group:

Commerce, economics, education, geography, government, history, human relations, military science and tactics, philosophy, physical welfare, psychology (except 109, 201, 207), sociology

All candidates for degrees in the College of Arts and Sciences complete the general university requirements for graduation which include a minimum of 124 semester hours with a point-hour ratio of 2.0 in all hours attempted.

BACHELOR OF ARTS

The total hours required for the degree of Bachelor of Arts include the requirements of the University College and six semesters of work which comprise approximately 94 semester hours approved by the dean of the College of Arts and Sciences. Not fewer than 50 semester hours shall be in courses numbered 100 to 299, with at least 12 semester hours in courses numbered 200 to 299.

Th	e specific requirements for the degree are:	Hours
1.	English:	12
	 Eng. 1-2 or 3-4—English Composition Eng. 101, 102—Sophomore English Literature (Students excused from Eng. 3 will fulfill this requirement by completing 9 semester hours.) 	
2.	Foreign Language:	6-20

A minimum of three college years of foreign language in high school and/or college, with two college years or equivalent in one language, is required. Two units of foreign language in high school are equivalent to one year of foreign language in college. At least one year of foreign language shall be taken in college.

- (1) Students who enter with four or more years of one foreign language take a language for one year. Students who enter with two years in each of two languages may complete the requirement by continuing in either language for one year, except that those who have had Latin may change to Greek.
- (2) Students who enter with three years in a foreign language may complete the requirement by continuing one and one-half years in the same language. Students who enter with two years in one language and one year in another, may continue either language for one and one-half years. Otherwise they study one language for two years.
- (3) Students who enter with two years in a foreign language may complete the requirement by continuing in the same language for two years. Students may change to a new language but must have at least two college years, or equivalent, in any one language, either in high school or in college, or in both.

- (4) Students who enter with one year or less in a foreign language take three years, with not fewer than two years in one language.
- 3. Natural Science and Mathematics: Six semester hours shall be in one subject______

12

Biological sciences: botany; Psych. 109, 201, and 207; zoology Physical sciences: astronomy, chemistry, geology, physics Mathematics (except 1, 2, and 3)

- (1) Students who enter with one year in biological sciences; and one year in physical science may fulfill the requirement in natural science, mathematics, or in a combination of them.
- (2) Students whose high school credits include less than one year of biological science; are required to take a year of biological science; those with less than a year in chemistry or physics are required to take a year of physical laboratory science.
- (3) Students who enter with neither biological science nor physical science are required to have one year of each.
- 4. Social Science: Three semester hours in each of three of the following departments _______

15

Economics, geography, government, history, philosophy, psychology (except 109, 201, and 207), sociology.

- 5. The Group and Subject Major: The major requirement includes 36 semester hours in a group with not fewer than 20 semester hours in a single field or subject unless otherwise indicated in the major requirements preceding the departmental description of courses. Unless the student is following a curriculum fully outlined in the catalog or specified at the beginning of the departmental description of courses he is expected to secure the approval of the dean for the courses included in his major. Three semester hours of advanced military science may be counted toward the 36 semester hours required, if the major is a social science. English Composition, the beginning or first year of a foreign language, Math. 1, 2, and 3, and courses in teaching techniques do not count toward the hours required in the respective major or minor.
- 6. The Group and Subject Minor: The minor requirement includes 18 semester hours in another group with not fewer than 12 semester hours in a single field or subject. Three semester hours of advanced military science may be counted toward the 18 semester hours required if 12 semester hours are taken in another social science. English Composition, the beginning or first year of a foreign language, Math. 1, 2, and 3, and courses in teaching techniques do not count toward the hours required in the respective major or minor.

BACHELOR OF SCIENCE

The total hours required for the degree of Bachelor of Science

[†]High school courses in botany, general biology, or zoology fulfill this requirement, but courses in agriculture, general science, hygiene, nature study, or physiology do not.

include the requirements of the University College and six semesters of work which comprise approximately 94 semester hours approved by the dean of the College of Arts and Sciences. Not fewer than 50 semester hours shall be in courses numbered 100 to 299, with at least 12 semester hours in courses numbered 200 to 299. Not more than 50 semester hours in any department are counted toward the degree requirements.

1.	e specific requirements for the degree are: English:	Hours
	Eng. 1-2 or 3-4 (English Composition) and 3 semester hours of literature	
	(Students excused from Eng. 3 will fulfill this requirement by completing 6 semester hours.)	
2.	Foreign Language: French or German preferred	_ 0-16
	A minimum of two college years of foreign language in high school and/or college is required. Two units of foreign lan- guage in high school are equivalent to one year of foreign language in college.	
	(1) Students who enter with four years in one foreign language or two years in each of two foreign languages are excused from this requirement.	
	(2) Students who enter with three years in one foreign language may complete the requirement by continuing the same language for one semester, or by taking a new language for one year. Students who enter with two years in one foreign language and one year in another, may continue either language for one semester. If a student changes to a new language he takes one year.	
	(3) Students who enter with two years in a foreign language may complete the requirement by taking one year of the same or another language; those who enter with one year in each of two languages, take one and one-half years in the same or another language.	
	(4) Students who enter with one year of foreign language take one and one-half years of a foreign language; those who enter with no foreign language take two years of a foreign language.	
3.	Natural Science and Mathematics:	. 48
	A minimum of one year of biological science and one year of physical science in high school or college is required. The further requirement includes a major in one of the departments (botany, chemistry, geology, mathematics, physics, zoology), and not fewer than 6 semester hours in each of two departments other than the major department. See "Courses of Instruction" for the major requirements.	
4.	Social Science: Three semester hours in each of three of	
	the following departments	. 14
	Economics, geography, government, history, philosophy, psychology (except 109, 201, and 207), sociology	
HEL	OR OF SCIENCE IN CHEMISTRY	

BAC

The total hours required for the degree of Bachelor of Science in Chemistry include the requirements of the University College and six semesters of work which comprise 94 semester hours in specific and elective courses as outlined in the curriculum below.

The	e specific	${\bf requirements}$	for th	e degree	include:	Hours
1.	English:					6

Eng. 1-2 or 3-4—English Composition (Students excused from Eng. 3 will fulfill the requirement by taking Eng. 4.)

2.	Foreign Language:	0-8
	A minimum of one college year of foreign language in high school and/or college is required. Two units of high school foreign language are equivalent to one year in college. Stu- dents looking forward to the doctorate should acquire a reading knowledge of German and French.	
3.	Natural Science and Mathematics:	85-95
	A minimum of one year of biological science in high school or college is required. The other specific requirements are listed in the curriculum below.	
4.	Social Science: Three semester hours in each of three of the following departments	14
	Economics, geography, government, history, philosophy, psychology (except 109, 201, and 207), sociology	

BACHELOR OF SCIENCE IN CHEMISTRY CURRICULUM*

The university requirements pertaining to physical welfare, military science, and speech are not indicated in the curriculum below. See pages 74, 75, and 79.

Freshman Program

The University College program sho	uld include:	
Hours	Hours	
Chem. 1 or 3—General Chemistry 4 E. D. 1—Engineering Drawing 2 Eng. 1 or 3—English Composition 3 Math. 5—Freshman Mathematics 5	Chem. 2 or 4—General Chemistry 4 Eng. 2 or 4—English Composition 3 Math. 6—Freshman Mathematics 5 Phil. 85—Principles of Reasoning 3 Social science elective 3	
Sophomore	Program	
Chem. 109—Quantitative Analysis 5 Chem. 115—Organic Chemistry 3 Chem. 119—Organic Preparations 2 Math. 117—Differential Calculus 4 Electives 2	Chem. 110—Quantitative Analysis 5 Chem. 116—Organic Chemistry 3 Chem. 120—Organic Preparations 2 Math. 118—Integral Calculus 4 Electives 2	
Junior Program		
Chem. 218—Physical Chemistry 3 Ec. 101—Principles of Economics 3 Math. 204—Advanced Calculus or 3 Math. 215—Differential Equations 3 Plys. 5 or 113—General Physics 4 Electives 3	Chem. 214—Physical Chemistry 3 Ec. 102—Principles of Economics 3 Phys. 6 or 114—General Physics 4 Electives 6	
Senior Program		
Chem. 215—Practical Physical Chemistry 3 Chemistry electives (courses over 200)_4-6 Physics electives3-6 Social science elective3 Flortives3	Chem. 216—Practical Physical Chemistry 3 Chemistry electives 4-6 Physics electives 3-5 Electives 3-5	

PREPROFESSIONAL CURRICULA

PREMEDICAL

Medical colleges require their prospective students to spend from six to eight semesters in premedical preparation. A number of medical colleges give preference to holders of a bachelor's degree and some require an arts college degree for admission.

^{*1.} A student who is deficient in such high school subjects as elementary algebra, plane geometry, and foreign language may not be able to complete this curriculum in eight semesters.

A student is advised to take Chem. 105 or 106—Qualitative Analysis in the summer and thus be prepared to take quantitative analysis in the fall semester of the second year.

The minimum requirements for admission include general inorganic chemistry, organic chemistry, physics, general biology or zoology, comparative anatomy, embryology, English, and in most cases a reading knowledge of either French or German. Courses in government, history, economics, sociology, philosophy, and literature are strongly advised.

Students who have completed 04 semester hours (six semesters) at Ohio University with a point-hour ratio of 2.0 or above, in all hours attempted, and have satisfied the requirements of the College of Arts and Sciences for the degree of Bachelor of Arts or Bachelor of Science may obtain the degree after completing a full year's work in an accredited school of medicine with an average grade of C or the equivalent.

The following sequence of courses is recommended. The university requirements pertaining to English composition, physical welfare, military science, and speech are not indicated in the curriculum below. See pages 74, 75, and 79.

The University College program should include: Freshman Program

2 I Collinati	* 10B10III
Chem. 1-2 or 3-4—General Chemistry 8	Zool. 3-4—General Zoology6 Electives;18
Sophomore	Program
Chem. 115-116—Organic Chemistry 6 Chem. 119—Organic Preparations 2 English* — 6 Gk. 27—Greek Words in English 2	Zool. 107—Principles of Heredity 3 Zool. 120—Comparative Vertebrate Anatomy 4
Junior P	rooram
Chem. 107—Quantitative Analysis 4 Math. 125—Elementary Statistics 3 Phil. 103—Introduction to Philosophy 3	Phys. 5, 6—Introduction to Physics 8 Zool, 216—Animal Parasites 4
Senior P	no ceno m
Zool. 201—Mammalian Anatomy† 4 Zool. 202—Vertebrate Embryology† 4	Zool, 205—Principles of Physiology 4
Suggested electives: courses in logic, philosop	hy, government, economics, history, English

Suggested electives: courses in logic, philosophy, government, economics, history, English literature, and mathematics.

PREDENTAL

The minimum requirement for admission to dental school is the completion of at least 60 semester hours of college work which must include: general inorganic chemistry, organic chemistry, physics, general biology or zoology, and English. Some dental colleges recommend additional courses in zoology. A broad training in courses other than natural science is urged. Students who have completed 94 semester hours (six semesters) at Ohio University with a point-hour ratio of 2.0 or above, in all hours attempted, and have satisfied the requirements of the College of Arts and Sciences for the degree of Bachelor of Arts or Bachelor of Science may obtain the degree after completing a full year's work in an accredited dental school with an average grade of C or the equivalent. The following sequence of courses is recommended.

^{*}For the Bachelor of Arts degree English 101 and 102 are required with English 171 strongly recommended as an elective in the junior year. For the Bachelor of Science degree the requirement is English 101 or 171.

^{**}See requirements for the Bachelor of Arts or the Bachelor of Science degree. †Students leaving at the end of the third year should elect this in the third year. tSee requirements for University College.

The university requirements pertaining to English composition, physical welfare, military science, and speech are not indicated in the curriculum below. See pages 74, 75, and 79.

Freshman Program

ould include:
Hours
Zool. 3-4—General Zoology6 Electives;18
e Program
Zool. 120—Comparative Vertebrate Anatomy 4
Electives** 8
Program
Zool. 205—Principles of Physiology — 4 Zool. 211—General Bacteriology — 4 Electives** 8
1

Suggested electives: courses in logic, philosophy, government, economics, history, and English literature.

NURSING

This curriculum is arranged for students who wish to obtain a college degree and also become registered nurses. Ohio University has an arrangement with the Grant Hospital School of Nursing, Columbus, Ohio, which enables a student to complete the requirements for a college degree and also those of the nursing course in five years and four months. These requirements can be met by completing a three-year curriculum at Ohio University, 94 semester hours with a point-hour ratio of 2.0 in all hours attempted, and two years and four months at the Grant Hospital School of Nursing.

A bulletin of the requirements for nurses will be furnished upon request to the Director of Nursing, Grant Hospital. Applicants must be fitted for nursing both in physique and in personality. The State Board requires that prospective nurses must pass tests in English and arithmetic, and that they must also take a mental ability test. These tests are given by the director of nursing, and must be arranged for not later than March 1 of the freshman year through the chairman of the department of zoology. A physical examination is given in May of the junior year. Application for it must be made to the Director of Nursing, Grant Hospital, not later than May 1. A transcript of credits earned at Ohio University must be sent to the training school at the end of the junior year. The training school year begins in September.

The university requirements pertaining to English composition, physical welfare, military science, and speech are not indicated in the See pages 74, 75, and 79. curriculum below.

^{*}For the Bachelor of Arts degree English 101 and 102 are required with English 171 strongly recommended as an elective in the junior year.

For the Bachelor of Science degree the requirement is English 101 or 171.

**See requirements for the Bachelor of Arts or the Bachelor of Science degree.

\$\$5ee requirements for University College.

OHIO UNIVERSITY

Freshman Program

The University College program should include:

Chem. 1-2 or 3-4—General Chemistry 8 French, Spanish, or German6-8 Algebra must be taken either in high school or college.	Psych. 1—General Psychology 3 Zool. 3-4—General Zoology 6 Electives‡	
Sophomore	Program	
Chem. 113, 117—Organic Chemistry 6 6 English* 6 H. Ec. 21—Selection and Preparation of Foods 3 Phil. 111—Business and Professional Ethics 2	Psych. 5—Educational Psychology 3 Soc. 1—General Sociology 3 Zool. 107—Principles of Heredity 3 Zool. 121—Elements of Anatomy 3 Electives** 4	
Junior Program		
H. Ec. 225—Nutrition 3 Math. 125—Elementary Statistics 3 Phil. 103—Introduction to Philosophy 3 Psych. 210—Mental Hygiene 3 Zool. 135—Elements of Physiology 4	Zool. 209—Biological Chemistry 4 Zool. 211—General Bacteriology 4 Zool. 212—Pathogenic Bacteriology 4 Electives** 4	

GRANT HOSPITAL SCHOOL OF NURSING

Fourth Year

Anatomy and Physiology 4	
	Professional Adjustments I1
(including bandaging, charting	Pharmacology3
massage, and case study)	Introduction to Medical Science 2
Diet in Disease1	Personal Hygiene1

Fifth Year (and four additional months)

(and tout sauth	oner monue)	
Surgical Nursing and 3 Surgical Specialties I 3 Obstetrical Nursing 2 Nursing of Children 2	Medical Diseases and Nursing and Medical Specialties I	

Suggested electives: courses in government, history, philosophy, and English literature: and, if possible, H. Ec. 273, 241. Two years of history in high school or college are required.

MEDICAL TECHNOLOGY

Preparation in medical technology trains students in the laboratory methods used in hospitals, physicians' offices, public health bureaus, and other laboratories concerned with medical diagnosis and investigation.

Technologists who wish to be recognized by the American Society of Clinical Pathologists and entitled to use the initials, M.T., must have had university training in a recognized hospital. Interested persons are invited to write to the Dean, College of Arts and Sciences, Ohio University, Athens, Ohio, for a descriptive folder on Training in Medical Technology.

^{*}For the Bachelor of Arts degree English 101 and 102 are required with English 171 strongly recommended as an elective in the junior year.

For the Bachelor of Science degree the requirement is English 101 or 171.

^{*}See requirements for the Bachelor of Arts or the Bachelor of Science degree. ‡See requirements for University College.

The Ohio University-Mount Carmel Hospital Affiliated Training for Medical Technologists amply fulfills all requirements. After completing six semesters (a minimum of 94 semester hours) at Ohio University, and while still registered in the university, prospective technologists spend twelve months in residence at Mount Carmel Hospital, Columbus, Ohio. An excellent feature connected with this portion of the training is a rotating arrangement which affords practice in specialized laboratories for certain technics, such as tuberculosis technic in the Franklin County Tuberculosis Sanitarium; histologic technic in the Pathological Laboratory of Ohio State University; and private laboratory experience in a practicing pathologist's office. Upon satisfactory completion of the requirements, the student is eligible to receive from Ohio University the degree of Bachelor of Science and to take the qualifying examination given each spring and fall by the Board of Registry of the American Society of Clinical Pathologists for the professional designation of Medical Technologist.

The W. K. Kellogg Foundation of Battle Creek, Michigan, has granted the university the sum of \$4,000 to be used as a scholarship and loan fund for students during their year at Mount Carmel. Exexpenses to be met during the year in Columbus are board and room, a fee of \$45 paid to the university, and a small sum for books and laboratory gowns. No fees are charged by Mount Carmel Hospital, nor does it pay any remuneration.

The university requirements pertaining to physical welfare, military science, and speech are not indicated in the curriculum below. See pages 74, 75, and 79.

Freshman Program*		
The University College program sho	uld include:	
Hours	Hours	
Chem. 1 or 3—General Chemistry 4 Eng. 3—English Composition 3 Foreign language or social science elective 3 Zool, 3—General Zoology 3	Chem. 2 or 4—General Chemistry 4 Eng. 4—English Composition 3 Foreign language or social science elective 3 Zool. 4—General Zoology 3	
Sophomore Program		
Chem. 113, 117—Organic Chemistry	Social science electives 5 Zool. 124—Histology 4 Zool. 135—Elements of Physiology 4 Zool. 211—General Bacteriology 4	
Junior Program		
Phil. 103—Introduction to Philosophy 3 Zool. 107—Principles of Heredity 3 Zool. 145—Clinical Technic 2 Zool. 209—Biological Chemistry 4 Zool. 212—Pathogenic Bacteriology 4	Chem. 107—Quantitative Analysis 4 Social science elective (course over 100) 3 Zool. 125—Animal Microtechnic 3 Zool. 146—Clinical Technic 2 Zool. 216—Animal Parasites 4	
Senior Program;		
Med. Tech. 191—Urinalysis 3 Med. Tech. 192—Hematology 5 Med. Tech. 193—Bacteriology, etc11	Med. Tech. 194—Chemistry 8 Med. Tech. 195—Histologic Technic 4 Med. Tech. 196—Metabolism and	

^{*}Two college years of foreign language or its equivalent are required. Two units of foreign language in high school are equivalent to one year of foreign language in college. †See description of courses on page 286.

Electrocardiography

Hours

INSECT CONTROL

Positions of a wide variety are offered by the Federal government, state experiment stations, and to a lesser extent by private companies in insect control work; i.e., economic entomology. Students considering this field as a vocation should plan to continue training beyond the Bachelor of Science degree. At least a master's degree is necessary to fit one for a position, and for most positions a Ph.D. degree is required.

The university requirements pertaining to physical welfare, military science, and speech are not indicated in the curriculum below. See pages 74, 75, and 79.

Freshman Program The University College program should include: Hours

Hours	110415	
Bot. 1—General Botany 3 Eng. 3—English Composition 3 Zool, 3—General Zoology 3 Electives‡ 6-8	Bot. 2—General Botany 3 Eng. 4—English Composition 3 Zool. 4—General Zoology 3 Electives‡ 6-8	
Chem. 1 or 3—General Chemistry 4	Chem. 2 or 4—General Chemistry 4	
Eng. 101—Sophomore English Literature or Eng. 111—Chief American Writers 3 Zool. 119—General Entomology 4 Electives* 4-6	Zool. 228—Animal Ecology4 Electives*4-6	
Math. 125—Elementary Statistics Junior P Model. 107—Principles of Heredity 3 Zool. 120—Comparative Vertebrate	Eng. 171—Sophomore Exposition 3	
Senior Program		
Bot. 107—Classification of Plants 3 Zool. 225—Advanced Invertebrate 4 Electives* 8-10	Phil. 103—Introduction to Philosophy 3	
Recommended electives: Agr. 1; Bot. 205, 20 175; Geol. 125; Govt. 1, 2 or 101, 102; Hist	06, 221, 222; Chem. 107; Ec. 101-102; Geog. 1, 2 or 110, 111; Photog. 77; Phil. 85, 107,	

175; Geol. 125; Govt. 1, 2 or 101, 102; Hist 1, 2 or 110, 111; Photog. 77; Phil. 35, 107, 117; Soc. 1, 2; Zool. 118, 125, 216. A reading knowledge in one foreign language (German, French, or Spanish) is required. Teaching requirements can be met by using electives properly.

PHYSICAL REHABILITATION

The following curriculum, leading to the Bachelor of Arts degree, prepares men and women for work in physical rehabilitation, such as work in connection with hospitals, sanitoria, and for recreational positions with industrial concerns and municipalities.

The university requirements pertaining to physical welfare, military science, and speech are not indicated in the curriculum below. See pages 74, 75, and 79.

Freshman Program

The University College program sho	oula include:
Eng. 1 or 3—English Composition 3 Foreign language* 4 P. W. 6—Physical Activities (Men) 1 Zool. 3—General Zoology 3 Electives;	Eng. 2 or 4—English Composition

^{*}See requirements for Bachelor of Science degree. ‡See requirements for University College.

Sophomore Program Hours Hours	
Eng. 101—Sophomore English Literature 3 P. W. 102—Personal and Community Health	Hours Eng. 102—Sophomore English Literature 3 P. W. 150—Community Recreation 3 Psychology 3 Electives*
Junior F	rogram
P. W. 119—Physical Activities (Men) 2 P. W. 127—First Aid	P. W. 120—Physical Activities (Men) _ 2 P. W. 128—Physical Therapy 2 P. W. 132—Physical Education
Senior Program	
Phil. 100—General Ethics 3 P. W. 167n—Teaching of Rhythmic 4 Activities (Women) 1 P. W. 209—Physical Activities Tests 2 Phys. 5—Introduction to Physics 4 Electives*	P. W. 18—Life Saving Methods 1 P. W. 1670—Teaching of Rhythmic 1 Activities (Women) 1 P. W. 252—Physical Diagnosis 3 Phys. 6—Introduction to Physics 4 Electives*

GOVERNMENT FOREIGN SERVICE?

Students desiring to prepare for government foreign service are advised to make an early selection of the area or country in which they hope to serve and to acquire as full a knowledge as possible of that area or country on the following points: language and literature, history, government, geography, natural resources, economic life, philosophy, religion, art, and educational system. The general requirements for the Bachelor of Arts degree should be completed. See page 97.

The following sequence of courses is recommended for the first three years. The university requirements in English, physical welfare, military science, and speech are not indicated below. See pages 74, 75, and 79.

```
Freshman Program
              The University College program should include:
Foreign language Government Government Hist. 1—Western Civilization in Modern Times Natural science
                                            ______ 4
                                                              Foreign language
                                                             Foreign language 4
Govt. 2—American Government 3
Hist. 2—Western Civilization in Modern Times 3
                                                              Natural science
                                              Sophomore Program
Eng. 101-Sophomore English Literature 3
                                                              Eng. 102-Sophomore English Literature 3
                                                              Eng. 102—Spinolous English Interactive of Geography of Europe or Ec. 102—Principles of Economics _____ 3
Hist. 111—History of United
Foreign language ___
Geog. 101-Industrial and Commercial
           Geography or
Ec. 101—Principles of Economics _____ 8
Hist. 110—History of United
States to 1865 _____ 8
                                                              States since 1865 ____
Soc. 2—Social Problems ____
Phil. 103-Introduction to Philosophy or
                                                              Speech 110-Parliamentary Law _____
Soc. 1—General Sociology ____.
                                                 Junior Program
Foreign language 3-4
Govt. 101—Comparative Government 3
Hist. 145—Latin American History or
Hist. 170—The Far East 3
                                                              Foreign language __
                                                                                                                ___3-4
                                                              Soc. 221—Contemporary Social
Movements or
Geog. 210-Political Geography _____ 3
                                                              Electives
Electives
```

Senior Program

Specialization as advised on area or country.

*See requirements for Bachelor of Arts degree.

PREPARATION FOR PERSONNEL WORK. A student interested in personnel work may plan his course of study with the dean of the college in which his specialized interest is found. Training for personnel work should begin with a broad general education and then be followed by special studies for application in, for example, education, industrial management, rehabilitation work in foreign fields, or administration and counseling of students as deans of extracurricular life either at the high school or college level.

The College of Arts and Sciences is in a position to assist students who desire guidance and training for personnel work, and to cooperate with the other colleges which offer courses in this field. The student is advised to become well grounded in the social sciences, particularly such subjects as psychology, sociology, philosophy, economics, education, and government, and to counsel with the dean of the college in which his major work is found.

PREPARATION FOR WORK IN LATIN-AMERICAN COUNTRIES. Students desiring to prepare for work in Latin-American countries in such fields, for example, as business, public health, or education are advised to study the Spanish and Portuguese languages, with emphasis on the spoken language, and to include in their studies the following courses: History 145, 225, and 226; Romance Languages—Portuguese 1-2 and Spanish 113 and 211; Geography 105; and selected courses in the College of Commerce.

PREPARATION FOR FEDERAL AND STATE BIOLOGICAL SERVICES. Botanical Services: Students interested in general administrative work in the United States forest service, fish and wild-life service, national park service, soil conservation service, and allied federal and state services, or in special technical positions with the federal and state governments, or private wood-using industries, or in research training leading to positions of professional status in forest pathology, plant pathology, plant physiology, forest and range ecology, agronomy, forestry, botany, and geobotany should consult with the chairman of the department of botany.

Zoological Services: Students interested in insect control will find the curriculum on page 105. Students interested in the biological survey, national park service, fisheries, or aquatic biology should consult with department advisers.

PREPARATION FOR SOCIAL WORK. The department of sociology is a member of the National Association of Schools of Social Administration and is prepared to give to a selected group of qualified students the university instruction and the field training required for certain staff positions with public and private agencies. The present program of the department is oriented toward training on both the undergraduate and the graduate levels. In addition, a number of courses are arranged to meet the in-service training needs of workers employed by public agencies and institutions. Inquiries regarding the details of the training program and admission requirements should be directed to the chairman

of the department; applicants for admission to graduate studies should consult the dean of the graduate college as well.

The basis for professional training in social work is an adequate education in the liberal arts subjects with a concentration of studies in the social sciences. Students will elect sociology as a major and will choose a second minor, or a second major, as desired, in a subject related to their line of specialization; e.g., economics, education, home economics, political science, psychology.† Students preparing for social case work in a family agency, public assistance office, aid for the aged office, child welfare agency, children's institution, juvenile court, public school, American Red Cross, rehabilitation center, and similar case work performing agencies, will be expected to register for the background courses and the case work and field service courses as outlined in the curriculum below. Students preparing for group work, community organization, social statistics, government service, personnel work, probation and parole, correctional work in penal institutions, and similar callings in the field of social administration will substitute in the junior and senior years courses appropriate to their specialty. All student programs must have the approval of the department; no student will be admitted to case work, field work, and internship courses without permission of the chairman of the department.

SOCIAL CASE WORK

The following curriculum is arranged for those expecting to prepare for social case work.

The university requirements pertaining to physical welfare, military science, and speech are not indicated in the curriculum below. See pages 74, 75, and 79.

Freshman Program The University College program should include:

The University College program sno	ula incluae:
Hours	Hours
Eng. 1 or 3—English Composition 3 Foreign language 4 Soc. 1—General Sociology 3 Zool. 3—General Zoology 3 Electives;* 2	Eng. 2 or 4—English Composition 3 Foreign language 4 Psych. 1—General Psychology 3 Soc. 2—Social Problems 3 Zool. 4—General Zoology 3
Sophomore	Program
Ec. 101—Principles of Economics 3 Eng. 101—Sophomore English Literature 3 Natural science or mathematics 3 Soc. 104—Community Organization 3 Soc. 193—Fields of Social Work 2 Electives* 3	Ec. 102—Principles of Economics 3 Eng. 102—Sophomore English Literature 3 Natural science or mathematics 3 Phil. 85—Principles of Reasoning 3 Psych. 3—Child Psychology 3 Soc. 110—Psychological Factors in Society or Soc. 125—Social Anthropology 3
Junior P	rogram
H. Ec. 225—Nutrition 3 P. W. 135—Maternal and Child Health 3 Soc. 211—Criminology and Penology or Soc. 222—Juvenile Delinquency 3 Electives* 7-9	H. Ec. 251—Home Management 2 Philosophy 3 Psych. 113, or 216, or 203, or 204 3 Soc. 208—Marriage and the Family 3 Soc. 224—Child Welfare 3 Soc. 238—Observation in Social Agencies 1 Soc. 239—Introduction to Case Work 2

^{*}See requirements for Bachelor of Arts degree. †See requirements governing majors and minors. ‡See requirements for University College.

Senior Program†

Hours	Hours
Psych. 210-Mental Hygiene or	Soc. 241—Juvenile Court Services or)
Psych. 212—Abnormal Psychology 3	Soc. 243—Child Welfare Services or) 2-4
Soc. 137—Social Statistics 3	Soc. 246—Family Welfare Services or)
Soc. 218—Urban Sociology or	Soc. 257—Internship Training in
Soc. 106—Rural Social Organization2-3	Social Agencies3-8
Soc. 240—Advanced Case Work 2	Electives*10-12
Soc. 245—Family Welfare Services 2	
Tile addisonalt	

Graduate Professional Curriculum for Social Work. Students admitted to the graduate professional curriculum must satisfy the requirements of the Graduate College leading to the Master of Arts degree** with modifications as follows: The student's undergraduate studies must have included work in the biological sciences and a minimum of twenty semester hours in the social sciences—sociology, economics, political science, and psychology; the student's graduate program must include a minimum of twenty-two semester hours of graduate courses in social work and closely allied subjects, four semester hours of thesis research, and from eight to twelve semester hours of field work in an accredited social agency. This program may normally be completed in two semesters of residence work, and one semester, or summer, of field work. Modifications in the program will be made to meet the needs of students who expect to be employed in other than social case work services, and for students offering professional study or work experience toward advanced standing.

In-Service Training Courses. A number of professional courses have been arranged to meet requests on the part of state and local welfare units for staff training on the in-service basis. In the past, groups of workers from the divisions of aid for the aged, public assistance, and from juvenile courts have availed themselves of this training opportunity. University credit is granted on both the undergraduate and graduate levels.

PREPARATION FOR TEACHERS. A student who desires to receive the degree of Bachelor of Arts or Bachelor of Science may qualify for a certificate to teach in the secondary schools by completing the requirements for certification. See the summary of courses required by the State of Ohio Department of Education given under the heading "Teaching Certificates."

PREPARATION FOR LAWYERS. A student in the College of Arts and Sciences who plans to enter a school of law should complete the specific requirements for the degree of Bachelor of Arts. No special curriculum is prescribed. The student is advised to take work in English and speech and in the social sciences with emphasis on government, history, philosophy, economics, and sociology.

A student who desires to enter a school of law at the end of three

^{*}See requirements for Bachelor of Arts degree.

^{*}See requirements for bactelor of Arts degree.

*See requirements governing admission to the Graduate College.

†By careful planning during the junior and senior years a student may arrange to do the
field work on a full-time basis in a recognized social agency for a period of nine weeks or an entire semester.

years of college work and receive the Bachelor of Arts degree from Ohio University after completing his first year in law school may do so. To be eligible for the degree he must complete the specific degree requirement, earn a total of 94 semester hours with a point-hour ratio of 2.0 in all hours attempted, and complete one year's work in an accredited law school with an average grade of C or the equivalent.

PREPARATION FOR OTHER PROFESSIONS. Special curricula are not prescribed for students who are preparing for public administration, or the ministry. A broad cultural education with emphasis on the student's interests is recommended for those preparing for these vocational fields. Those who plan to enter public administration should take work in social science with emphasis upon government, history, economics, and sociology. The preparation for theology should include emphasis on English literature; the social sciences, especially philosophy and psychology; and Latin or Greek, preferably Greek.

THE COLLEGE OF COMMERCE

Consistent with its character and history as a pioneer educational institution, Ohio University inaugurated courses in accounting and secretarial studies in 1893 at a time when few colleges and universities offered instruction in commerce or business administration. As the conception of collegiate training for business broadened, the offerings were steadily expanded until today the College of Commerce offers comprehensive programs of study in business and in economics which lead to the degree of Bachelor of Science in Commerce.

The college also includes the department of secretarial studies which offers programs of study leading to the degree of Bachelor of Science in Secretarial Studies, and the School of Journalism which offers theoretical and practical programs of study leading to the degree of Bachelor of Science in Journalism.

It is deemed as essential to teach students the art of living as it is to teach them how to earn a living. Further, it is a duty of every college graduate to participate in and, if possible, to assume responsibility for intelligent leadership in civic, governmental, professional, and social activities of life. Every student in the College of Commerce, therefore, is required to take some courses offered by the other colleges of the university in order to widen his scope of knowledge and interest.

Through a wise use of the elective hours given in all programs of study in the College of Commerce, a student may stress an interest by choosing courses offered by any other college of the university. Such courses are open to students in the College of Commerce on the same basis as they are open to students in those colleges. The College of Commerce, in turn, aims to serve students enrolled in the other colleges of the university and admits them to its courses on the same basis as students registered in the College of Commerce.

The mutual relationship between the colleges whereby a student in one college may take courses in another gives a breadth of combinations in education which only a university can offer. Specific noteworthy examples of the relationship which exists between the colleges of the university are to be found in commercial teacher training and industrial The Colleges of Education and Commerce cooperate in engineering. offering commercial teacher training and the Colleges of Applied Science and Commerce cooperate in offering industrial engineering. However, it is impossible to set up curricula for each and every possible combination. For this reason, the College of Commerce stresses its faculty advisory system for students. Each student is assigned to, or, with the consent of the dean, he may choose as an adviser, a member of the faculty who is a specialist in the student's field of interest. Student and adviser together then mold the skeletal outlines of courses into an integrated program of study best suited to the student's individual needs.

All candidates for degrees in the College of Commerce complete the general university requirements for graduation which include a minimum of 124 semester hours (plus any physical welfare requirement in excess of 4 hours) with a point-hour ratio of 2.0 in all hours attempted. The total hours include the requirements of the University College and, normally, six semesters of work which comprise approximately 94 semester hours approved by the dean of the College of Commerce.

BACHELOR OF SCIENCE IN COMMERCE

All students pursuing programs of study leading to the degree of Bachelor of Science in Commerce must take the basic subjects indicated in the sophomore, junior, and senior programs of the curriculum outlined below. The sequence of the courses introduces a logical development of the student's knowledge but it can be varied to fit his or her particular interest.

The curriculum permits a maximum of elective hours through which the needs of each individual student may be met and his interests may be developed. There are only two limitations on the choice of elective hours. They must be chosen so that no fewer than 54 semester hours required for graduation are in commerce and economic subjects, and no fewer than 47 semester hours are in subjects offered in other fields. This distribution of semester hours includes those earned in the University College and the basic subjects listed in the curriculum outline. The second limitation on the choice of elective semester hours is that they must be approved by the dean of the college or the student's faculty adviser. This approval safeguards the student's own best interests.

FIELDS OF SPECIALIZATION. It is felt that a student who pursues a program of studies leading to the degree of Bachelor of Science in Commerce automatically has chosen a field of concentration. Further concentration, therefore, by way of a major is not required; however, additional specialization may prove desirable, especially when a student seeks employment, and it is recommended. Some of the fields which may

be stressed are listed below. Others based on a student's particular interest may be developed.

ACCOUNTING General accounting Cost accounting
Public (C.P.A.) accounting

BUSINESS LAW

DISTRIBUTION Marketing Advertising Retailing Selling and Sales Management Transportation

ECONOMICS Economic history Economic theory Labor economics Public utilities Taxation

FINANCE Banking Business finance Investments Public finance

MANAGEMENT ersonnel administration Production management

PREPARATION FOR LAW SCHOOL STATISTICS

Detailed information about the possibilities of developing a special interest may be obtained from the office of the dean.

CURRICULUM IN COMMERCE

The university requirements pertaining to English composition, physical welfare, military science, speech, and freshman lectures are not indicated in the curriculum below. See pages 74, 75, and 79.

Freshman Program

The freshman program will be determined largely by the requirements of the Unirine treshman program will be determined largely by the requirements of the University College. Courses suggested for consideration but not requirement of the unriculum are: Ec. 1—Economic Development of the United States; Ec. 3—Contemporary Economic Society; Ec. 15—Economic Geography: and Soc. 1—General Sociology. Acct. 75-76—Elementary Accounting, which is a curriculum requirement, is strongly recommended for the freshman year, especially for those students who plan to specialize in this field.

Sophomore Program

Acct. 75—Elementary Accounting	Acct. 76—Elementary Accounting 3 Ec. 102—Principles of Economics 3 Fin. 121—Business Finance* 3 Eng.—Elective* 2-3 Electives 5	
16	16-17	
Junior F	rogram	
Bus. L. 155—Business Law 3 Mgt. 211—Industrial Management*; 3 Mkt. 155—Marketing Principles* 3 Stat. 155—Business Statistics 3 Electives 4	Bus. L. 156—Business Law 3 Advt. 155—Advertising Principles*‡ 3 Ec. (advanced)—Elective* 2-3 Stat. 156—Business Statistics 3 Electives 5	
16	16-17	
Senior Program		
Bus. L. 175—Government and Business* 3 Electives1417	Phil. 111—Business and Professional Ethics*	

PREPARATION FOR LAW SCHOOL. A student in the College of Commerce who plans to enter law school should pursue the usual commerce curriculum and also elect, with the approval of his adviser, courses in

^{*}May be taken either semester. †Ec. 212 may be substituted.

[#]Mkt. 158 or Mkt. 201 may be substituted.

other fields, especially government, history, philosophy, and public speaking.

A student who plans to enter law school before graduation from the College of Commerce may still receive the Bachelor of Science in Commerce degree, provided the following conditions are met: (1) the student has the approval of the dean; (2) the requirements of the University College are met; (3) a minimum of 94 approved semester hours (plus any physical welfare requirement in excess of 4 hours) are completed with a point-hour ratio of at least 2.0 in all hours attempted; and (4) a full year's work in an accredited law school is completed with at least an average grade of C or its equivalent.

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

Recognizing the need and the increasing demand that executives in industry have a knowledge of and training in economics and business management, the College of Applied Science in cooperation with the College of Commerce offers a curriculum in industrial engineering. This is given in outline form under "College of Applied Science." Three options or definite fields of major study—management, marketing, and technical—are open to students in this curriculum.

BACHELOR OF SCIENCE IN SECRETARIAL STUDIES

In order to prepare secretaries for responsible positions in business and other offices, the curriculum leading to the degree of Bachelor of Science in Secretarial Studies affords students the same opportunity for becoming acquainted with basic business courses and general non-business courses as does the curriculum for the Bachelor of Science in Commerce degree. In the strictly secretarial subjects, students are expected to meet the standards of proficiency required for successful employment. At the completion of the four-year course, students must pass proficiency tests in shorthand and typing.

Special care is taken to enable students to secure carefully supervised practice in the secretarial field as a part of the curriculum. This practice includes the use of all representative office machinery and experience in secretarial techniques under normal business office conditions.

Students entering with high school credit in shorthand or typing are required to take a placement test in order to determine the class in which they should register. Substitute work will be given to those students who have been assigned to advanced courses.

CURRICULUM IN SECRETARIAL STUDIES

The university requirements pertaining to English composition, physical welfare, military science, speech, and freshman lectures are not indicated in the curriculum below. See pages 74, 75, and 79.

Freshman Program

The freshman program will be determined largely by the requirements of the University College. Courses suggested for consideration but not required in the curriculum

are: Ec. 1—Economic Development of the United States; Ec. 3—Contemporary Economic Society; Ec. 15—Economic Geography; and Soc. 1—General Sociology. Sec. St. 15-16—Typewriting and Sec. St. 31-32—Shorthand are curriculum requirements and should be included in the freshman program except for those students who enter with high school credits in these subjects and whose placement test results permit substitute courses.

Sophomore	Program
Acct. 101—Secretarial Accounting 3	Acct. 102—Secretarial Accounting 3
Ec. 101—Principles of Economics 3	Ec. 102—Principles of Economics 3
Sec. St. 15—Typewriting or	Sec. St. 16—Typewriting or
Sec. St. 15—Typewriting or Sec. St. 31—Shorthand2-3	Sec. St. 32—Shorthand2-3
Sec. St. 120—Business Letter Writing* 3	Eng.—Elective*2-3
Eng.—Elective2-3	Electives5-6
Electives 3	· —
	15-18
16-18	
Junior F	rogram
Mkt. 155-Marketing Principles† 3	Advt. 155—Advertising Principles†‡ 3
Psych. 1—General Psychology 3	Sec. St. 152—Advanced Dictation and
Sec. St. 151—Beginning Dictation and	Transcription 5
Transcription 5	Sec. St. 172—Secretarial Theory 2
Sec. St. 171—Secretarial Theory 2	Sec. St., 185—Office Management 2
Electives 3	Eng.—Elective2-3
	Electives2
16	_
	16-17
Senior I	rogram
Ec. 212—Administration of Personnel 3	Bus. L. 156—Business Law 3
Bus. L. 155—Business Law 3	Fin. 101—Money and Credit† 3
Fin. 121—Business Finance†3	Sec. St. 175—Secretarial Practice4
Sec. St. 111—Typewriting 2	Electives 4
Electives6	110001100
110001705 111111111111111111111111111111	17
17	^'
41	

COMMERCIAL TEACHER TRAINING. Training to prepare students for the teaching of commercial subjects in high school is offered by the College of Education in cooperation with the College of Commerce. The curricula for these fields, which include bookkeeping-social business, business education, economics, salesmanship-merchandising, stenographytyping, are outlined under the College of Education and also under the heading, Teaching Certificates. The majors are planned according to the revised regulations for certification in commercial subjects.

BACHELOR OF SCIENCE IN JOURNALISM

Because of the development of new media of communication and publication, journalism has steadily expanded until today training in that field demands specialization. Ohio University's School of Journalism offers seven definite curricula: News writing and editing, feature and magazine writing, newspaper advertising, business management, radio journalism, pictorial journalism, and public relations. Preparation for teaching journalism is also offered in conjunction with the College of Education. As far as possible in all the curricula, practical experience is given along with instruction in theory. As a result, while working toward their degrees, students serve on the staff of a daily newspaper under the direction of news and business executives; become acquainted with type and make-up problems in a well-equipped typography labora-

^{*}May be taken any semester. †It is suggested that these foundation courses be carried in the third and fourth year according to the interests of the student. For example, if a student wishes to carry advanced work in banking and finance, it is recommended that the foundation courses in this field be carried in the third year. ‡Mkt. 158 or Mkt. 201 may be substituted.

tory; prepare scripts and broadcast them over WOUB, the university's experimental radio station; take pictures with various kinds of cameras, develop and print them in the finest photography laboratories to be found on a university campus and then make engravings from them; study the media used in public relations activities and work out projects of various types. They thus meet situations almost identical to those they will face when they start their professional careers.

Combined with the student's selection from journalism and allied courses is a broad cultural background in which emphasis is placed upon literature, economics, finance, government, history, art, music, philosophy, psychology, and sociology. Development of specific fields of interest is encouraged. Special courses without journalism prerequisites are available for those who wish to write for magazines and trade journals and for those who plan to supervise high school publications or teach journalism in high schools.

The requirements for the different curricula are made up of the University College program and offerings from various colleges of the university, as well as those of the School of Journalism. The courses within the curricula may be varied to meet the needs of students who have special interests which they would like to pursue. All curricula permit a student to take electives in any field he may desire.

CURRICULA IN JOURNALISM

In the curricula that follow the university requirements pertaining to English composition, physical welfare, military science, speech, and freshman lectures are not indicated. See pages 74, 75, and 79.

Freshman Program

In the University College all journalism students should take Hist, 1-2—Western Civilization in Modern Times (6); Psych. 1—General Psychology (3); and Sec. St. 15—Typewriting (2) unless they can operate a typewriter efficiently. Ec. 3—Contemporary Economic Society (3) is required for all except those specializing in feature and magazine writing and pictorial journalism. All students except those specializing in advertising or business management should include F. A. 17—Introduction to the Fine Arts (3). Students planning for pictorial journalism or public relations should include P. A. A. 11—Theory of Design.

If a course in science is required by the University College program, students should take Zool. 3-4—General Zoology (6). If a foreign language is taken, a choice should be made from French, German, Spanish, and Italian. F. A. 17-18—Introduction to Fine Arts will take care of a requirement in the Humanities to best advantage. Sociology should not be taken until the sophomore year.

NEWS WRITING AND EDITING

Sophomore Program			
First Semester Hours	Second Semester Hours		
Ec. 101—Principles of Economics	Ec. 102—Principles of Economics 3 Jour. 107—Newspaper Reporting 3 Jour. 146—Newspaper Make-Up and Advertising Typography 2 Jour. 172—The Newspaper as a Business Institution; 2 Soc. 2—General Sociology 3		
Junior Program			
Jour. 117—Newspaper Editing 3 Jour. 151—Contemporary Thought and Developments 3 Photog. 77—Elementary Photography 3	Jour. 111—Reporting Practice 8 Jour. 152—Contemporary Thought and Developments 3 Photog. 133—News Photography 2		

†Requirement may be delayed to the junior or senior year and fulfilled by taking Jour. 243—Newspaper Management (3).

Senior Program			
First Semester Hours Jour. 111—Reporting Practice 3 Jour. 207—Reporting of Public Affairs_ 2 Jour. 225—The Editorial Page 3	Second Semester Hours		
FEATURE AND MA	GAZINE WRITING		
Sophomore Ec. 101—Principles of Economics 3 Eng. 101—Sophomore English Literature 3 Jour. 103—Introduction to News Writing 3 Jour. 105—The Newspaper 2 Soc. 1—General Sociology 3 Radio 179—Introduction to Radio 2	Program 3 Ec. 102—Principles of Economics 3 Eng. 102—Sophomore English Literature 3 3 Eng. 150—The Short Story 2 Jour. 107—Newspaper Reporting 3 Mus. 131—Backgrounds for Music 2 Criticism 2 Soc. 2—General Sociology 3		
Dram. A. 103—Contemporary Theatre 2 Eng. 175—Creative Writing 2 Jour. 151—Contemporary Thought and Developments 3 Jour. 183—Fiction Writing for Newspapers and Magazines 3	Forgram Jour. 111—Reporting Practice 3 3 3 3 3 3 3 3 3		
Jour. 223—Advanced Feature and Magazine Writing	Jour. 134—Writing of Criticism 2 Jour. 208—Journalism Ethics 2 Photog. 133—News Photography 2		
NEWSPAPER	ADVERTISING		
Acct. 81—Accounting Survey* 2 Ec. 101—Principles of Economics 3 Jour. 103—Introduction to News Writing 3 Mkt. 155—Marketing Principles 3 P. A. A. 147—Principles of the Space Arts in Advertising 2	Program		
Mkt. 171—Principles of Personal Selling 2 Mkt. 201—Retail Selling Policies 3 Jour. 247—Newspaper Advertising and Layout 3	Program Advt. 186—Retail Advertising		
Senior F	Program		
BUSINESS MANAGEMENT			
Sophomore Acct. 75—Elementary Accounting 3	Program Acct. 76—Elementary Accounting		
Bus. L. 155—Business Law	Advt. 176—Advertising Problems 2		

^{*}Acct. 75-76—Elementary Accounting (6) may be substituted and the requirement of Jour. 172 fulfilled in the junior or senior year by taking Jour 243—Newspaper Management.

Senior Paractice 2 2 3 3 3 3 3 3 3 3	Togram Jour. 206—Newspaper Law 2 Jour. 208—Journalism Ethics 2
RADIO JOI	URNALISM
First Semester Hours Speech 2—Voice and Articulation ————————————————————————————————————	Program Second Semester Hours
Radio 5—Radio Speech 2 Dram. A. 103—Contemporary Theatre 3 Jour. 111—Reporting Practice 3 Jour. 151—Contemporary Thought and Developments 3	Regram E. E. 105—Radio Broadcasting Mechanics 2
Senior P Radio 125—Radio Play Production 3 Radio 185—Radio News Practice 2 Radio 211—Radio Management 2 Radio 216—Writing for Radio 2	Radio 125—Radio Play Production 3 Radio 125—Radio News Practice 2 Radio 247—Radio Workshop 2
PICTORIAL J	
First Semester	Ec. 102—Principles of Economics 3 Jour. 107—Newspaper Reporting 3 Jour. 146—Newspaper Make-Up and
Photog. 77—Elementary Photography 3 P. A. A. 147—Principles of the Space Arts in Advertising 2	Photog. 133—News Photography 2
Jour. 148—Photo Engraving 2 Photog. 145—Workshop in Photography_ 3	rogram Jour. 208—Journalism Ethics 2 Photog. 145—Workshop in Photography_ 3
PUBLIC R	ELATIONS
Sophome Soph	Year Ec. 102—Principles of Economics 3 3 3 3 3 3 3 3 3
Mkt. 171—Principles of Personal Selling 2 Jour. 111—Reporting Practice 3 Jour. 151—Contemporary Thought and Developments 3 Jour. 247—Newspaper Advertising and Layout 3 Photog. 77—Elementary Photography 3 Senior Jour. 227—Public Relations Techniques. 2	Year Psych. 6—Psychology of Advertising and Selling
Jour. 227—Public Relations Techniques. 2 H. R. 203—Human Relations 3 Ec. 212—Administration of Personnel 3 Psych. 131—Empolyee Selection and Placement 2	Year 2 Jour, 228—Public Relations 2 H. R. 204—Human Relations 3 Psych. 215—Social Psychology 3 Jour, 208—Journalism Ethics 2 Advt. 232—Copy Writing 2

THE COLLEGE OF EDUCATION

The College of Education is devoted to the education of men and women who intend to enter the fields of teaching and educational administration. A wide range of programs prepares students for teaching in elementary schools, high schools, and colleges, for positions as school principals, superintendents, or supervisors, and for such specialized educational work as that of the guidance counselor or school psychologist.

All these programs include a broad base of general education, intensive preparation in the subjects to be taught, and professional emphasis and focus which combine educational theory with actual practice in meeting the responsibilities of the profession. Each program is thus designed to prepare students to enter the profession possessing the liberal background, the functional knowledge and the professional understanding and skill which are requirements for professional success.

BACHELOR OF SCIENCE IN EDUCATION

The degree, Bachelor of Science in Education, is granted upon completion of the general graduation requirements of the university, and of one of the approved programs of specialization in a field of educational service. These programs provide for specialization in elementary education, in any of the academic fields for teaching in high school, or in the special subjects of art, commerce, home economics, industrial arts, music, physical education, or speech. Other programs of specialization may be individually arranged with the approval of the dean of the College of Education.

Whether in elementary education or in preparation for teaching in high school academic or special fields, the student's program has two main parts:

The *general requirements* include the studies necessary to meet the graduation requirements of the university, and to ensure the breadth of study in representative fields which is an essential characteristic of the baccalaureate degree.

The *special requirements* comprise the studies basic to professional competence, and include the specific work which prepares directly for a particular area of teaching or other educational service.

Students preparing to teach academic or special subjects in high school should have in addition to these program requirements, two or more minor teaching subjects. Such minors should be selected in consultation with the student's adviser or the dean of the College of Education, in the light of the student's interests and of probable opportunities for employment.

The general requirements for the degree, Bachelor of Science in Education, are a minimum of 124 semester hours with a point-hour ratio of 2.0 in all hours attempted.

The following are the *general requirements* for all students who plan to specialize in the teaching of special subjects and high school academic subjects:

_		4:00
1.	Education and Psychology	*23
	Psych. 1—General Psychology 3 Psych. 5—Educational Psychology 3 Ed. 130—Principles of Secondary Education 4	
	Ed. 130—Principles of Secondary Education 4 Ed. 228—Principles of Teaching 3	
	Ed. 228—Principles of Teaching 3 Ed. 180 or 182—Observation and Participation 3 Ed. 181, 183, or 184 and 185—Student Teaching4	
	Ed. 270—Senior Conference in Secondary Education 3 Special Methods (See Major)	
2.	English	12
	English 1-2 or 3-4—English Composition6 English 102 and 111 or 1126	
3.	Humanities (one year in one field)	•
	(a) Foreign language (b) Philosophy 85, 87	
	(c) Fine Arts 17, 18—Introduction to the Fine Arts	
4.	Speech 1—Fundamentals of Speech	1
5.	Physical Education	2-6
	(See p. 74)	
6.	Military Science	
	(See p. 75)	
7.	Science or Mathematics	6-10
	(One year in one field)	
	Biology, Botany, Zoology; Mathematics; Chemistry; Physics; Geology	
8.	Social Studies	12
	History and Government (at least 6 hrs.) Economics, Sociology, or Geography	
~		

Specialization requirements for a major in special subjects or in academic high school subjects:

Agriculture

Select 27 semester hours in agriculture:

	Ho	ours	Hour	rs
Agr. Agr. Agr. Agr. Agr. Agr.	1—General Agriculture 3—Forestry 102—Vegetable Gardening 103—Fruit Growing 104—Small Fruits 109—Landscape Gardening 116—Field Crops 121—Types and Breeds of Farm Animals 124—General Dairying	3 93 93 93 93 93	Agr. 127—Types, Breeds, and Management of Poultry Agr. 131—Floriculture and Greenhouse Management Agr. 135—Farm Management Agr. 143—Plant and Animal Breeding Bot. 1, 2—General Botany Chem. 1 or 3—General Chemistry Ed. 168a—Teaching of Agriculture Zool. 3, 4—General Zoology	2 3 6 4 3
	Biological Science—Botany			
Bot.	1, 2—General Botany 107—Classification of Plants 117—Dendrology or		Bot. 205 or 206—Plant Physiology Bot. 108—Vegetation of North	4
Bot.	175—Taxonomy of the Non-Vascular Plants or		Bot. 109—Plant Geography of the World Bot. 203 or 204—Principles of Plant	
Bot.	215—Taxonomy of Vascular Plants	3 8	Ecology Ed. 168b or 168g—Teaching of Botany or Teaching of General Science Zool. 3-4—General Zoology	2
Bot. Bot. Bot.	117—Dendrology or 175—Taxonomy of the Non-Vascular Plants or 215—Taxonomy of Vascular Plants	3	America or Bot. 109—Plant Geography of the World Bot. 203 or 204—Principles of Plant Ecology Ed. 168b or 168g—Teaching of Botany or Teaching of General Science.	4

^{*}Special Methods in the subject to be taught are not included in this total.

Physical Science-Chemistry

Hours	Hours
Chem. 1-2 or 3-4—General Chemistry — 8 Chem. 115-116—Organic Chemistry — 6 Chem.—Approved electives — 12-14 Ed. 168s—Teaching of Chemistry and Laboratory Practice — 2-4	Phys. 5-6—Introduction to Physics or Phys. 112-114—General Physics 8
Commerce—Bookkeep	ping-Social Business
Acct. 75-76—Elementary Accounting 6 Acct. 125—Intermediate Accounting 3 Acct. 175, 195, 206, or 224 6 Bus. L. 155-156—Business Law 6 Mgt. 211—Industrial Management or Mgt. 271—Business Policy or Ec. 212—Administration of Personnel 3 Ec. 15—Economic Geography 3	Ec. 101-102—Principles of Economics 6 Fin. 101—Money and Credit 3 Fin. 121—Business Finance 8 Sec. St. 120—Operation of Office Machinery 2 Com.—Approved electives 3 Ed. 161b—Teaching of Bookkeeping 2 H. Ec. 256—Economics of Consumption 3
Commerce—Bus	
Acct. 75-76—Elementary Accounting 6 Acct. 125—Intermediate Accounting 3 Bus. L. 159—Business Law 8 Mgt. 211—Industrial Management or Mgt. 271—Business Policy or Ec. 212—Administration of Personnel 3 Ec. 15—Economic Geography 3 Fin. 101—Money and Credit 5 Sec. St. 15-16—Typewriting 4	Sec. St. 31-32—Shorthand Sec. St. 120—Business Letter Writing 3 Sec. St. 151—Beginning Dictation and Transcription 5 Sec. St. 175—Secretarial Theory 2 Sec. St. 175—Secretarial Practice 4 Ed. 161b, 161s, 161t—Teaching of Bookkeeping, Shorthand, or Typewriting 2 H. Ec. 256—Economics of Consumption _ 3
Commerce—Salesman	aship-Merchandising
Acct. 75-76—Elementary Accounting or Acct. 101-102—Secretarial Accounting 6 Advt. 155—Advertising Principles 3 Advt. 186—Retail Advertising 5 Ec. 3—Contemporary Economic Society 3 Ec. 101-102—Principles of Economics 6 Mkt. 155—Marketing Principles 3 Mkt. 171—Principles of Personal Selling 2 Mkt. 201—Retail Selling Policy 3 Mkt. 205—Principles of Fashion Merchandising 3	Com.—Electives H. Ec. 256—Economics of Consumption 3 P. A. A. 125—The Arts in Everyday Life or P. A. A. 147—Principles of the Space Arts in Advertising 2 Psych. 4—Business Psychology or Psych. 6—Psychology of Advertising and Selling 3 Ed. 151b—Teaching of Bookkeeping 2
Commerce—Sten	ography Typing
Bus. L. 159—Business Law	Sec. St. 171, 172—Secretarial Theory 4 Sec. St. 175—Secretarial Practice 4 Sec. St. 155—Office Management 2 Com.—Approved electives (Accounting preferred) 6 Ed. 161s—Teaching of Shorthand 2 Ed. 161t—Teaching of Typewriting 2
Conservation	n Education
(For other curricula in natural reso Bot. 1, 2—General Botany	Geog. 132—Conservation of Natural Resources 3 Geol. 1, 2—Elementary Geology 6 Geog. 150—Geography and Environment. 3 Phys. 5, 6—General Physics 8 Agr. 117—Soil Conservation 3 Ed. 169c—Teaching of Conservation 3 Math. 5—Freshman Mathematics 5 E. D. 1—Engineering Drawing 2
Dramatic Art and Speech	
Speech 2—Voice and Articulation	ech, p. 125) Dram. A. 101-102—Movement and Pantomime 4 Speech 110—Parliamentary Law 1 Speech 112—Advanced Public Speaking 2 Speech 117—Debate Practice 3

Dramatic Art and Speech (Continued)		
Dram. A. 23—Elements of Stage Lighting	Hours Hours	
Social Science Ec. 15—Economic Geography or Geog. 101—Industrial and Commercial Geography	Ec.—Approved electives	
Eng		
Eng. 1-2 or 3-4—English Composition — 6 Eng. 102 and 111 or 112 — 6 Eng.—Approved electives — 16 Ed. 143—School Library Cataloguing and Classifying or Ed. 146—School Librarian's Reading Guidance — 2-3	Ed. 164a, 164b—Teaching of English in Senior High School 4 Additional electives suggested from the fields of library administration for schools, dramatic arts, speech correction, or journalism.	
Fr. 1-2—Beginning French 8 Fr. 101-102—Intermediate French 8 Fr.—Approved electives 14	nch Ed. 165f—Teaching of French or Ed. 1650—Teaching of French and Advanced French Grammar2-3 One other foreign language12-16	
Geogr.—Approved electives21 Geol. 1-2—Elementary Geology or Geol. 125, 126—Physical and Historical	raphy Special methods in major or minor field 2-3	
Geology6		
Gerr	nan	
Ger. 1-2—Beginning German 8 Ger. 101-102—Intermediate German 8 Ger. 109, 110—German Grammar and Composition 4	Ger.—Approved electives10 Ed. 165g—Teaching of German2 One other foreign language12-16	
Cuidance and	d Counseling*	
Ed. 131—Educational Tests and Measurements 2 Ed. 248—Guidance 3 Ed. 284—Research in Education 3 Psych. 113—Psychology of Adolescence 2 Psych. 131—Employee Selection and Placement 2 Psych. 210—Mental Hygiene 3 Psych. 220—Personnel and Vocational Counseling 2	Ec. 101-102—Principles of Economics 6 Ec. 212—Administration of Personnel 3 Soc. 1—General Sociology 3 Soc. 2—Social Problems 3	
History and Govt. 1, 2—American Government 6 Hist. 1, 2—Western Civilization in Modern Times 6 Ed. 169h—Teaching of History and Civics in Junior and Senior High Schools 2	Hist. 110, 111—History of the U.S 6 History and Government—Approved electives10	

^{*}Certification in Guidance Counseling is granted on the completion of an approved undergraduate program, and fifteen hours or more of graduate credit in approved courses, and three years of experience in teaching and personnel work. Students who elect this major will, therefore, need to complete requirements in two teaching minors, one of which will be social science.

Home Economics			
H. Ec. 11—Clothing Selection and Construction	Hours H. Ec. 227—Quantity Cookery 3 H. Ec. 251—Home Management 2 H. Ec. 253—Home Management 3 Laboratory 3 H. Ec. 256—Economics of Consumption. 3 H. Ec. 272—Child Development 2 H. Ec. 273—Family Relationships 3 H. Ec.—Approved electives 2 Chem. 1-2 or 3-4—General Chemistry or Zool. 3-4—General Zoology6-8 Ed. 168h—Teaching of Home Economics 3 P. A. A. 91—Design and Composition 2 P. A. A. 102—Applied Design 3 Zool. 141—Elementary Bacteriology 4		
Industrial Arts—(Comprehensive Major		
Ind. A.	Ind. A. 141—Printing 3 Ind. A. 209—Practicum in General Shop 2 Ind. A. 212—Equipment and Organization of Industrial Arts Laboratories 2 Ind. A. 226—History of Industrial and Vocational Arts 3 Electives in Industrial Arts 6 E. D. 1-2—Engineering Drawing 4 Ed. 160m—Teaching of Industrial Arts. 3 Chem. 1-2 or 3-4; Phys. 5, 6; or Math. 5-6—One year in one subject_8-10		
Industrial .	Arts—Special		
Ind. A. 1—Woodworking I	Ind. A. 212—Equipment and Organization of Industrial Arts Laboratories 2 Ind. A. 226—History of Industrial and Vocational Arts 3 Ind. A.—Approved electives in the Selected Field 16 E. D. 1-2—Engineering Drawing 16 E. D. 1-2—Engineering of Industrial Arts 17 Chem. 1-2 or 3-4; Physics 5-6; or Math. 5-6—One year in one subject 18-10		
By taking the core courses listed and a ing, Graphic Arts, Metalworking, or Wood	ppropriate electives, a specialization in Drawworking may be developed.		
It. 1-2—Beginning Italian 8 It. 101-102—Intermediate Italian 8 Ed. 165f, Ed. 165o, Ed. 165r, or Ed. 165s — Teaching of French, Latin, German or Spanish2-3	It.—Approved electives14 One other foreign language12-16		
L	atin		
For those entering with 4 years of Lat. 101—Familiar Essays 4 Lat. 102—Horace and Terence 4 Lat. 103—Pliny's Letters 3 Lat. 104—Livy and Ovid 3			
For those entering with 2 years of	Latin:		
Lat. 3—Cicero's Orations (4), Lat. 4—Vergil (4), and 19 hours from the above. Ed. 165r.—Teaching of Latin 2	One other foreign language12-16		
	tration for Schools er-librarians only) Ed. 145, 146—School Librarian's Reading Guidance, Elementary and High School Ed. 147—School Library, an Information Laboratory Ed. 148—School Library Laboratory Practice 1		

Mathematics			
Hours Hour	Math. 12—Descriptive Astronomy or Math. 34—Mathematics of Finance or Math. 125—Elementary Statistics or Math. 201—Theory of Equations2-3 Ed. 168m—Teaching of Mathematics in High Schools2-3 Ed. 281—Educational Statistics 8		
Music Compan	1 Cumpanision		
Music—Genera Mus.—Applied Music 8 Mus.—Voice 4 Mus. 3-4, 103-104—Ear Training and 8 F. A. 123 or 124—Music History 3 Mus. 105-106, 111-112—Harmony 8 Mus. 113-114—Analysis and Form 4 Mus. 133-134—Instrumentation 4 Mus. 171—Music Materials and Systems 2 Mus. 173-174—Conducting 2 Mus. 177—Appreciation in Music Education Education 3 Mus.—Ensemble 2 Ed. 166d—Teaching of Dances and Games 1	Ed. 166f—Teaching of Music in First Six Grades Ed. 166j—Teaching of Music in Junior and Senior High Schools Ed. 166p—Teaching of Class Piano 1 Ed. 166p—Teaching of Class Piano 1 Ed. 166s—Teaching of Percussion and Pre-Band Instruments 1 Ed. 166s—Teaching of Class Stringed Instruments 1 Ed. 166v—Teaching of Class Voice 1 Ed. 166v—Teaching of Class Voice 1 Ed. 166v—Teaching of Class Brass Instruments 1 Ed. 166z—Teaching of Class Brass Instruments 1		
Marie Tantana	ntal Garage 1.1		
Music—Instrumen	•		
Mus.—Band 4 Mus.—Major Instrument 8 Mus.—Minor Instruments 4 Mus.—Orchestra 4 Mus.—Piano* 2-4 Mus. 3-4, 103-104—Ear Training and 8 Sight Singing 8 F. A. 123 or 124—Music History 3 Mus. 105-106, 111-112—Harmony 8 Mus. 131-114—Analysis and Form 4 Mus. 133-134—Instrumentation 4 Mus. 173-174—Conducting 2	Mus. 177—Appreciation in Music 3 Education 3 Ed. 166b—Teaching of Instrumental 3 Music 3 Ed. 166j—Teaching of Music in Junior 3 and Senior High Schools 3 Ed. 166r—Teaching of Percussion and 1 Pre-Band Instruments 1 Ed. 166s—Teaching of Class Stringed 1 Instruments 1 Ed. 166w—Teaching of Woodwind 1 Instruments 1 Ed. 166z—Teaching of Class Brass 1 Instruments 1		
Painting and P. A. A. 11-12—Theory of Design	Alfied Arts F. A. 121-122—History of Painting and Sculpture 6 P. A. A. 123 or 124—Jewelry 2 P. A. A. 137—Costume Design 2 P. A. A. 171—House Decoration 3 P. A. A. 205—Painting or P. A. A. 207—Advanced Design 3 P. A. A. 209—Prints 3 P. A. A. 249—Art Supervision and Curricula 2 E. D. 1—Engineering Drawing or Arch. 55—Fundamentals of Architecture 2-3 Ed. 160h—Teaching of Space Arts 2 Ed. 160h—Teaching of Space Arts 2		
Physical We P. W. 6, 7, 119, 120—Physical Activities 6 P. W. 102—Personal and Community Health 3 P. W. 127—First Aid 2 P. W. 133—Theory and Practice of Adapted Activities 2 P. W. 150—Community Recreation 3 P. W. 150—Nature and Function of Play 2 P. W. 204—History and Principles of Physical Education 3	P. W. 206—Organization and Administration of Physical Education 2 P. W. 167h—Teaching of Health		

^{*}A minimum of two hours in piano is required. The two additional hours may be applied on major or minor instrument requirements at the discretion of the adviser.

Physical Welfare—Women			
Hours Hours P. W. 1, 6, 7, 8—Sports, Dance 4	Hours P. W. 206—Organization and Administration of Physical Education_2 Ed. 167a, 167b—Teaching of Coaching_4 Ed. 167h—Teaching of Health3 Ed. 167n, 167o—Teaching of Rhythmic		
Phys. 5, 6—Introduction to Physics 8 Phys. 113, 114—General Physics 8 Phys.—Approved electives	Chem. 1-2 or 3-4—General Chemistry 8 Ed. 168p—Teaching of Physics 2 Math. 5-6—Freshman Mathematics10		
Psycho	ology*		
Psych. 1—General Psychology 3 Psych. 3—Child Psychology or Psych. 113—Psychology of Adolescence_3-2 Psych. 5—Educational Psychology 3 Psych. 203—Mental Measurements 3 Psych. 210—Mental Hygiene 3 Psych. 220—Personnel and Vocational Counseling 2 Psych. electives (to be chosen in consultation with a departmental adviser—see other column) 12 Science—Compr	•		
Bot. 1, 2—General Botany 6 Chem. 1-2 or 3-4—General Chemistry 8 Geol. 1-2—Elementary Geology or Geol. 125-126—Physical and Historical Geology	Math. 12—Descriptive Astronomy 3 Phys. 5, 6—Introduction to Physics 8 Zool. 3-4—General Zoology 6 Elective in science 3		
Ed. 168b, 168g, 168p, or 168z—The Teaching of Botany, General Science, Physics, Chemistry and Laboratory Practice, or Zoology2-4			
Social Studies—Con	Hist. 110, 111—History of U.S 6 Soc. 1—General Sociology 3 Soc. 2—Social Problems 3 Electives in social studies 4 Ed. 169h—Teaching of History and Civics in Junior and Senior High Schools or Ed. 169s—Teaching of Social Science2-3		
Social Science			
Soc. 1—General Sociology 3 Soc. 2—Social Problems 3 Soc. 5—Rural Sociology or 2-3 Soc. 218—Urban Sociology 2-3 Soc. 104—Community Organization 3 Soc. 208—Marriage and the Family 3 Soc. 222—Juvenile Delinquency 3 Ec. 101-102—Principles of Economics 6	Ed. 169s—Teaching of Social Science 2 Geog. 150—Geography and Environment or Geog. 101—Industrial and Commercial Geography		
Spanish			
Sp. 1-2—Beginning Spanish 8 Sp. 101-102—Intermediate Spanish 8 Sp.—Approved electives 14	Ed. 165s—Teaching of Spanish2 One other foreign language12-16		

^{*}Certification as School Psychologist is granted upon completion of an approved undergraduate program, such as the above, including completion of requirements for a teaching certificate, and an approved graduate program in Psychology. Students who elect this major will, therefore, need to complete requirements in two teaching minors, one of which will be social science.

Speech

Hours	Hours		
Speech 2—Voice and Articulation 2	Speech 207—Clinical Methods 3 Speech 210—Speech Pathology 3 Speech 212—Phonetics 3 Speech—Electives 3 Psych, 210—Mental Hygiene 3 Ed. 162h—Teaching of High School 0 Dramatics 2 Ed. 162x—Teaching of Speech 2		
Zoole	оду		
Zool. 3-4—General Zoology 6 Zool. 119—General Entomology 4 Zool. 136—Elements of Physiology 4 Ed. 168z—Teaching of Biology 2 Zool.—Electives 10	Suggested Electives: 6		
The following are the <i>general and special requirements</i> for all students who plan to specialize in elementary education; i.e., Kindergarten-Primary or Intermediate Grades:			
Freshman	Program		
First Semester Hours	Second Semester Hours		
Sophomore	Program		
Psych. 3—Child Psychology or 3 Psych. 5—Educational Psychology 3 Soc. 1—General Sociology 3 Ed. 103—Studies in Childhood 3 Mus. 72—Music Fundamentals 2 P. A. A. 3—Elementary Design for 2 Teachers 2 H. Ec. 55—Home Economics for the Elementary School 2 P. W. 101-113—Physical Education 1	Soc. 107—Educational Sociology 3 Geog. 150—Geography and Environment 3 Mus. 166e—Teaching of Music 2 Eng. 102—Sophomore English Literature 3 P. W. 167p—Teaching of Physical Education 1 Hist. 110 or 111—History of U.S 3 P. W. 101-113—Physical Education 1		
Junior P	rogram		
Ed. 163g—Teaching Arithmetic in Intermediate Grades or Ed. 163p—Teaching Arithmetic in Primary Grades Ind. A. 115—Elementary Industrial Arts 1 Eng. 111 or 112—Chief American Writers P. W. 102—Personal and Community Health Ed. 160c—Practical Design Workshop 3 Electives 3	Ed. 176—Student Teaching in Intermediate Grades or Ed. 172—Student Teaching in Kindergarten-Primary Grades 5 Ed. 110—Student Teaching Laboratory 4 Ed. 169f—Teaching Social Studies 2 Ed. 163b—Teaching Reading and Languages 3 Ed. 101—Activities and Play Materials for Children 2		
Senior P	rnoram		
Ed. 177—Advanced Student Teaching in Intermediate Grades or Ed. 174—Advanced Student Teaching in Kindergarten-Primary Grades 6 Ed. 111—Student Teaching Laboratory 4 P. A. A. 157—Appreciation of the Space Arts	Ed. 212—Senior Conference in Elementary Education 2 Govt. 105—Current Political and Social Problems 2 Electives 12		

The requirements for the major in *Special Education** include those listed in the freshman year of the outline for the elementary education major, plus the three-year program outlined below:

Sophomore Program		
Hours	Hours	
Psych. 3—Child Psychology or 3 Psych. 5—Educational Psychology 3 Soc. 1—General Sociology 3 Ed. 103—Studies in Childhood Education 3 3 Mus. 72—Music Fundamentals 2 P. A. A. 3—Elementary Design for Teachers 2 H. Ec. 55—Horae Economics for the Elementary School 2 P. W. 101-113—Physical Education 1	Soc. 107—Educational Sociology 3	
Junior P	rogram	
Ed. 163g—Teaching Arithmetic in Intermediate Grades or Ed. 163p—Teaching Arithmetic in Primary Grades 3 Eng. 111 or 112—Chief American Writers 3 P. W. 102—Personal and Community Health 3 Ed. 160e—Practical Design Workshop 1 Ed. 123—Curriculum for Special Classes 3 Psych. 212—Abnormal Psychology or Psych. 216—Psychology of Individual Differences 2-3	Ed. 176—Student Teaching in Intermediate Grades 6 Ed. 110—Student Teaching Laboratory 4 Ed. 169f—Teaching Social Studies 2 Ed. 163b—Teaching Reading and Languages 3 Ed. 101—Activities and Play Materials for Children 2	
Senior Program		
Ed. 178—Student Teaching in Special Education 6 Ed. 111—Student Teaching Laboratory 2 P. A. A. 157—Appreciation of the Space Arts 1 Ed. 221—Organization of Special Classes 2 Psych. 225—Minor Problems in Psychology 2 Electives 3	Ed. 212—Senior Conference in Elementary Education 2 Govt. 105—Current Political and Social Problems 2 Electives 12	

THREE-YEAR DIPLOMA COURSES

During the period of acute teacher shortage, the College of Education will continue to offer three-year diploma courses for those who wish to become kindergarten-primary or intermediate grade teachers. These three-year courses require the completion of the first six semesters of the regular program, with a minimum point-hour ratio of 2.0 in all hours attempted. The appropriate four-year provisional certificate will be issued upon the completion of this program.

SPECIAL CADET PROGRAM

To assist in meeting the critical shortage of elementary teachers, Ohio University has established a special two-year program. The four-year provisional "cadet" certificate is granted upon the satisfactory completion of this accelerated course. The work includes a broad liberal background, and concentration on direct professional preparation and supervised experience. High school graduates who meet selective ad-

^{*}The program in Special Education leads to a four-year provisional certificate in Elementary Education with specialization in remedial instruction and the education of slow learners.

mission requirements will complete the requirements in four semesters; superior students may accelerate the program even further by carrying additional course load and attending the summer session.

The program for the Cadet Provisional Certificate is as follows:

Cadet-Teacher Program			
Hours	Hours		
Eng. 3-4—English Composition	P. W. 102—Personal and Community Health P. W. 1, 2—Physical Education 2 Psych. 7—Elementary Psychology for Teachers 4 Ed. 120—Principles, Organization, and Management in Elementary School 4 Ed. 121—Materials and Methods of Instruction in the Elementary School 8 Ed. 175—Observation and Participation 3 Ed. 176—Student Teaching 4 Social science elective 3		
Workshop2			

STUDENT TEACHING AND OBSERVATION AND PARTICIPATION

Successful student teaching represents the culmination of the program of professional preparation; it is a requirement for the degree, Bachelor of Science in Education, and for a three-year diploma. No candidate will be considered for the degree, or for recommendation for a teaching certificate, who has not completed at Ohio University at least five hours of observation, participation, and student teaching, of which at least three hours are in student teaching. The degree of Bachelor of Science in Education will be granted only to candidates who have given, within the five years immediately preceding, satisfactory evidence of a high degree of teaching skill, knowledge of modern methods, and ability to employ them in the classroom.

Student teaching reservations should be made before the opening of the semester in which the work is to be completed. Reservation blanks are secured from the Director of Teacher Training, Ohio University.

ELEMENTARY TRAINING SCHOOLS. Student teaching is done in the kindergarten and the elementary grades of the University Elementary School maintained by Ohio University. The enrollment is not selective and the school is a typical school. The equipment compares favorably with that in the best city schools. Facilities for elementary teaching are also available in The Plains Elementary School at The Plains, a community four miles from Athens, and in the Mechanicsburg School, two miles from Athens. In these elementary schools a supervising critic is in charge of each room which is used for observation and student teaching.

A unit of the University Elementary School is equipped for practice in special education including work with slow-learning and mentally-handicapped children. This program is designed to prepare teachers who will be needed to staff the schools under Senate Bill 65 which provides for more adequate financing of the program of special education in Ohio. A group of from 12 to 16 children is carefully selected from the schools of Athens. Opportunity is afforded for individual diagnosis of children.

JUNIOR HIGH TRAINING SCHOOL. Students who are preparing for teaching in the upper grades or junior high school do their student teaching in the Athens Junior High School, the Mechanicsburg Junior High School, or The Plains High School.

SENIOR HIGH TRAINING SCHOOL. Students who are preparing for high school teaching do their student teaching in the Athens High School or in The Plains High School. The Athens Senior High School has an enrollment of about 350 students and is located a short distance from the campus. The arrangements with the Athens High School and The Plains High School provide unusual facilities for all phases of high school teaching.

Transportation to the Mechanicsburg and The Plains schools is furnished by the university without cost to the students.

PREREQUISITES FOR ALL TYPES OF STUDENT TEACHING

- 1. A student must have demonstrated proficiency in English usage, both written and oral. The requirement in written English may be satisfied by attainment of a C average or better in English 1-2 or English 3-4, or by a satisfactory performance on a written proficiency test in English. The requirement in oral English may be met through certification by the student's instructor in the freshman English course, or by later special examination.
- 2. A student must have demonstrated proficiency in speech and freedom from speech defects. This requirement is met through the satisfactory completion of Speech 1, or through a special examination. Special clinical attention is available to students who wish to remedy defects.
- 3. Students are required to meet the standard in the psychological test for entrance to teacher preparation. This requirement is based on Sec. 7659 of the Ohio statutes and the regulations of the State of Ohio Department of Education. Exceptions can be made to this standard only in case of high scholastic record and unusually favorable personality traits.
- 4. A student must have second-semester junior standing, and a scholastic average of at least 2.0 on all hours attempted, and on all hours attempted in education. Transfer students or others whose programs are irregular are required to have the substantial equivalent of the professional and academic course requirements in the appropriate program for the degree of Bachelor of Science in Education.

TEACHING CERTIFICATES

A student who plans to teach in Ohio makes application for a teaching certificate in the office of the registrar at the time of application for graduation. The teaching certificate is issued by the State of Ohio Department of Education and qualifies the student to teach the subjects indicated on the certificate.





Students who are not planning to teach in Ohio should inform themselves concerning the requirement specified by the department of education of the state in which they expect to teach.

A student who plans to teach in the elementary grades registers in the College of Education when he has completed the requirements of the University College. The curricula offered by the College of Education include the requirements of the State of Ohio Department of Education and qualify a student to obtain a provisional certificate to teach in the elementary grades or the kindergarten-primary grades, depending upon the student's preparation.

Students who plan to teach high school or special subjects ordinarily enroll in the College of Education. The curricula of the College of Education include the requirements of the State of Ohio Department of Education and qualify the student to obtain a provisional certificate to teach the subjects indicated on the certificate. However, under the certification laws, a student enrolled in another degree college may meet the requirements to teach academic and special subjects by completing the certification requirements and the requirements for the degree. Students who plan to teach in high school should prepare to teach at least three subjects.

The minimum requirements in education (professional credits) and in the teaching fields which qualify a student for teaching in high school are indicated below.

Minimum professional credits for a provisional high school or a special certificate:

Subject	Sem. Hrs.	Subject	Sem. Hrs.
Educational Psychology		Electives in:	
(Prereq., General Psychology	y)	History of Education	
Principles of Education		Tests and Measurements	
School Administration, Organi		Educational Sociology	
or Management	2-3	Secondary Education	
Methods of Teaching	2-3	Introduction to Teaching	
(see subject requirement)		Philosophy of Education	
Student Teaching*	3-5	Minimum Total	17

Minimum requirements for a provisional high school certificate in the various teaching fields (academic and special subjects):

	-
Subject Sem. Hrs. Art 24 1. Drawing 5 2. Design, painting, sculpture 9 3. Appreciation or history 7 4. Methods, including teaching materials, sources, organization, observation 3	Bookkeeping—Social Business
Biological Science (prerequisite-1 h.s.	1. Geology 3 2. Geography 3
unit)15	3. Pertinent electives or excess in above 9
1. Zoology 3	
2. Botany 3	English (prerequisite—3 h.s. units)15
(or general biology6)	1. English Composition6
(or general biology—6) 3. Pertinent electives9	2. English and American poetry 3 3. English and American prose 3
Bookkeeping 9 (bookkeeping, accounting, methods)	4. Pertinent electives or excess in above 3

^{*}A high school certificate requires student teaching in the secondary grades, 7-12; special certificate, student teaching in the elementary and the secondary grades.

Subject

Sem. Hrs.

Ger	neral Science15 Physics3	Music—Vocal24 1. Harmony (written, oral, keyboard), sight singing, ear training10
1.	Physics3	1. Harmony (written, oral, keyboard),
2. 3.	Chemistry 3 Biology 3	2. History and appreciation 4
4.	Other science electives or excess in	3. Applied music (piano or singing, or
1.	above6	both)4
		both) 4. Music education, including methods
	(General science will also be added	for elementary and high school, ob-
	to a certificate on the basis of an	servation, participation, conducting_ 6 5. Membership in some choral group
	integrated base course and pertinent electives, totaling 15 sem. hrs.)	5. Membership in some choral group
	electives, totaling 15 sem. his.)	Physical Education 10
		Physical Education16 1. Principles, organization, administra-
His	story (prerequisite-2 h.s. units)15	tion of health and physical education 4
1.	story (prerequisite—2 h.s. units)15 World history3	2. Theory and practice, including stunts.
2.	American history 3 Political science 3	 Theory and practice, including stunts, apparatus, tumbling, swimming, danc-
3.	Political science	ing. etc.
4.	Pertinent electives or excess in above 6	3. Theory and practice, including ath- letic coaching in intramural and in-
		terscholastic athletics 4
TJ.	me Economics	4. Health education, including teaching
1.	Foods and nutrition 6	of health and school health problems 4
2.	Textiles and clothing 6	•
3.	Home management, child develop-	Physical Science (prerequisite—1 h.s.
	ment, housing, household equipment,	unit)15
	home furnishing, family relationships,	1. Physics
	home nursing	Physical Science (prerequisite—1 h.s. unit)
4.	home nursing6 Methods 2	o. Termient electives of excess in above a
	Diction de l'action de la constant d	Salesmanshin Morehandising 90
		Salesmanship—Merchandising20
Ind	lustrial Arts24	2. Salesmanship
I	Distributed over the following:	 Salesmanship Advertising, merchandising, retailing,
1.	Graphic arts — drawing, planning,	economic geography, excess in above.
2.	printing, photography, duplicating Woods—furniture construction, car-	or pertinent electives14
۷.	pentry, wood finishing	Science (comprehensive major)4
3.	Metals—sheet metal, art metal,	An integrated base course and perti-
	foundry, machine metal work Applied electricity — communication,	nent electives, or the total distrib-
4.	Applied electricity — communication,	nent electives, or the total distrib- uted over the following: physics, zoology, botany, geology, chemistry,
	transportation, power Ceramics—clay and concrete	zoology, botany, geology, chemistry,
5. 6.	Methods and organization	and astronomy.
٠.	nictious and organization	Social Science (prerequisite-1 h.s. unit) 15
		1. Economics
La	nguages (prerequisite—2 h.s. units)15 (15 semester hours in the language	2. Sociology
	in which certification is desired)	3. Industrial geography 3. 4. Political Science
	in which certification is desired)	5. Pertinent electives or excess in above 3
		o. Zerunent electives of excess in above g
Lil	orary Science15	Social Studies (comprehensive major)40
]	Distributed over the following:	An integrated base course and perti-
1.	Bibliographic	nent electives, or the total distrib-
2. 3.	Materials	and modern Furanean history ago
4.	Technical Management and functions	nomics, sociology, political science.
4.	Management and Tunetions	An integrated base course and pertinent electives, or the total distributed over the following: American and modern European history, economics, sociology, political science, principles of geography.
-		
Ma	thematics (prerequisite—2 h.s. units)_15	Speech15
$\frac{1}{2}$.	College algebra 3 College geometry 3 Trigonometry 3 Pertinent electives or excess in above 6	Speech15 Distributed over the following: 1. Speech, fundamentals, interpretative
3.	Trigonometry 2	reading, speech correction and voice.
4.	Pertinent electives or excess in above 6	dramatic production, public address
		dramatic production, public address and discussion10 2. Excess in above or pertinent electives 5
34		z. Excess in above or pertinent electives 5
1	usic—Instrumental24 Harmony (written, oral, keyboard), sight singing, ear training10	Stenggraphy—Typing 90
т.	sight singing, ear training 10	Stenography—Typing20
z.	History and appreciation4	2. Typing
3.	History and appreciation 4 Applied music (orchestral instru-	2. Typing 3. Methods 4. Office practice, business English, ex-
	ments) 4	4. Office practice, business English, ex-
4.	Music education, including instru- mental methods and conducting 6	cess in above, or pertinent electives 6
5.	Membership in band or orchestra	Typing (typing and methods) 5
	or or or or or or	0 (

Any of the above subjects appearing on a certificate issued by the State of Ohio Department of Education qualifies the applicant to teach in the secondary grades the specified field or any subject listed as a required course in the field.

Teaching subjects are not designated as majors and minors. The certificate indicates the number of hours preparation in each subject listed thereon.

Minimum requirements for a provisional special certificate in the various special teaching fields:

5	Subject Sen	. Hrs.	Subject Sem. Hrs.
Ar		60 3.	Conducting 2
	Drawing		Instrumental classes4
1.	Drawing		Theory (ear training, sight singing,
2.	Design, painting, sculpture	25 **	dictation, harmony, etc.)16
3.	Appreciation and history	10 _	Applied music16
4.	Methods, teaching materials, sour	rees,	Applied music10
	organization, observation and stu	dent 7.	History, appreciation, literature 4
	teaching	10 8.	Ensemble4
Bu	siness Education,		usic—Vocal53
I	Minimum requirements:	1.	Methods, materials, observation 6
	Typing	3 2.	Student teaching 3
	Shorthand Bookkeeping and accounting	6	(elementary and secondary levels)
	Bookkeeping and accounting	6 3.	Conducting 2
	Methods	2 4.	Class voice2
	Distribute remainder over the fol	low- 5.	Theory (ear training, sight singing,
	ing:	10 M - 0.	dictation, harmony, etc.)16
1.		6.	Applied music16
Τ,	Stenography—Typing		Applied music
	Shorthand, typing, office prace business English and corresponde	tice, 7.	History, appreciation, literature 4
	pusiness English and corresponde	nce, 8.	Ensemble4
	methods in shorthand and typing		
2.	Bookkeeping—Social Business	PΙ	ysical Education40
	Business law, accounting, econd	omic .	
	geography, economics, business	or- 1.	Principles, organization, and admin-
	ganization		istration of physical and health edu-
3.	Salesmanship-Merchandising		cation4
••	Marketing principles selegmens	hin 2.	Theory and practice of physical edu-
	Marketing principles, salesmans advertising, retailing, merchandi	ain a	cation12
	advertising, retaining, merchandr	SHIR	(games of low organization, elemen-
TT.	W	0.5	tary physical education, play and recreation, first aid, activities other
rio.	me Economics		recreation first aid activities other
1.	Foods and Nutrition	8-15	than athletics such as: games,
	(includes normal nutrition, replanning, selection, preparation,	neal	
	planning, selection, preparation	and	stunts, gymnastics, apparatus, danc-
	serving)		ing, tumbling, swimming)
2.	Clothing	0 15 3.	Theory and practice of physical
۵.	(includes selection, construction,	0_10	education6
	(includes selection, construction,	tex-	(athletic coaching, including inter-
	tiles, art principles)	10.10	scholastic and intramural sports such
3.	General	_12-19	as: (men) football, soccer, speedball,
	(includes child development, far	mily	basketball, baseball, tennis, track;
	relationships or euthenics, house	ing.	(women) soccer volleyball hockey
	home furnishings, equipment, h	ome	(women) soccer, volleyball, hockey, basketball, baseball, tennis, track)
	home furnishings, equipment, h management, home hygiene or h	ome 4.	Tracki
	nursing, and consumer education)	4.	
			(teaching of health and school health
Ind	ustrial Arts	45	problems; hygiene including personal
		40	problems; hygiene including personal health, public health, child hygiene,
	Distributed over the following:		sanitation, immunology, and allied
1.	Graphic arts - drawing, plann	ing,	subjects)
2.	printing, photography, duplicatin Woods—furniture construction,	g 5.	Individual corrective gymnastics and normal diagnosis 2
	pentry, wood finishing	6.	Human anatomy and physiology 6
3.	Metals-sheet metal, art metal,		•
4.	foundry, machine metal work Applied electricity — communicat transportation, and power	ion, Sp	eech40 Speech fundamentals, interpretative
	transportation, and power		Speech fundamentals, interpretative reading, speech correction and voice,
5.	Ceramics—clay and concrete		dramatic production, public address
6.	Methods and organization		and discussion (including debetes
			and discussion (including debates, ex-
M	sic—Instrumental	5.9	tempore speaking, panel discussion,
			the oration, persuasive speech, and various original speech forms), spec-
1.	Methods, materials, observation .	4	various original speech forms), spec-
2.	Student teaching	3	ial methods in teaching speech34
	(elementary and secondary levels)	2.	
			above6

Minimum requirements for a provisional vocational certificate:

Courses leading to a degree offered by Ohio University in home economics outlined by the College of Education or by the College of Applied Science qualify a student for a provisional vocational certificate in the subject.

The information given above is found on the application form issued by the Department of Education and in the manual, "Laws and Regulations Governing the Certification of Teachers in Ohio," June 1, 1945. Questions concerning certification should be referred to the dean of the College of Education, Ohio University.

THE COLLEGE OF FINE ARTS

The College of Fine Arts comprises the School of Dramatic Art and Speech, the School of Music, and the School of Painting and Allied Arts. Within these schools, opportunity is offered for a broad, cultural education in the fine arts and for special training in the following departments: dramatic production, radio, speech, speech correction, applied music, music history and appreciation, music theory, school music, architecture, design, drawing and painting, photography, art history and appreciation, school art.

Candidates for degrees in the College of Fine Arts complete the general graduation requirements, which include a minimum of 124 semester hours with a point-hour ratio of 2.0 in all hours attempted. These requirements include the program of the University College.

A candidate for the degree of Bachelor of Fine Arts who is preparing to teach should plan his program to fulfill the minimum requirements listed in the section on teaching certificates (see page 128) in this catalog.

A student who desires the degree of Bachelor of Arts or the degree of Bachelor of Science in Education may major or minor in any one of the three schools in the College of Fine Arts and receive the degree desired by complying with the requirements of the college which grants the degree.

BACHELOR OF FINE ARTS

The Bachelor of Fine Arts degree is offered to fulfill three functions: to provide the student with specialized training in one of the fine arts; to offer an opportunity to gain a cultural background through a study of the relationship of all of the arts; to prepare the student, as far as possible, to become a responsible member of society. To these ends, the program has been kept flexible to meet individual needs. Every effort is made to provide educational and vocational counseling.

The general requirements for the degree of Bachelor of Fine Arts include a minimum of 32 semester hours for a major in (a) dramatic art and speech, (b) music, or (c) painting and allied arts and a minor of 24 hours in general courses in the fine arts.

Although major programs often require a large proportion of work in courses of a practical nature, it should be pointed out that minor studies are confined to the areas of appreciation and history.

The specific requirements for the degree include the following courses: F. A. 17-18—Introduction to the Fine Arts and 6 hours of English beyond the University College requirement.

MAJOR IN THE SCHOOL OF DRAMATIC ART AND SPEECH. The curriculum of the School of Dramatic Art and Speech permits concentration in the following areas: dramatic art, speech, radio broadcasting, and

speech correction. The program is flexible and purposes to meet the needs and ability of the individual student.

The University College program should include:	Hours
Speech 2-Voice and Articulation, or	
Speech 3—Public Speaking	2
F. A. 17-18—Introduction to the Fine Arts	6

In addition to the above courses, Speech 34—Oral Interpretation of Literature and 12 hours of English beyond the University College requirement are to be taken by candidates for the degree of Bachelor of Fine Arts with a major in the School of Dramatic Art and Speech.

The School of Dramatic Art and Speech maintains a Speech and Hearing Clinic which serves the needs of students, faculty, and the public. Consultations concerning all types of speech disorders may be arranged with the director of the clinic. Remedial treatment for cases of a functional nature is provided free of charge under the direction of a competent speech pathologist.

MAJOR IN THE SCHOOL OF MUSIC. The School of Music makes provisions for individual study in all branches of vocal and instrumental music and offers a wide range of courses in the fields of theory, history and appreciation, and school music. Opportunities are provided for individual participation in student recitals, as well as for ensemble experience in groups such as the choir, glee clubs, quartet, bands, and orchestras.

Students desiring the minimum of 32 semester hours for a major are permitted considerable latitude in the choice of courses, provided all prerequisites are met. Selections from the fields of music history, appreciation, theory, ensemble, and applied music are available.

If a student wishes to concentrate in some phase of applied music (voice, piano, organ, string or wind instruments), theory, composition, or conducting, it is usually necessary to include up to 60 semester hours in the major field.

Six hours of English beyond the University College requirement are to be taken by candidates for the degree of Bachelor of Fine Arts with a major in music. A required minor consists of 24 hours of general courses in the fine arts.

The University College program should include:	Hours
Applied music	4
Mus. 3-4—Ear Training and Sight Singing	4
F. A. 17-18—Introduction to the Fine Arts	6

Students who desire to specialize in the field of school music are given the opportunity of preparing for the positions of special music teacher or music supervisor while working toward the degree of Bachelor of Fine Arts. In accordance with the state requirements, the major may be either vocal or instrumental.

Students in the College of Arts and Sciences wishing to establish a major in music should include at least 32 semester hours of work in this field. The director of the School of Music should be consulted as the adviser of the course. A minor of 16 semester hours of music may be taken by students of any other degree college.

Ohio University is a member of the National Association of Schools of Music. The requirements for entrance and for graduation as set forth in this catalog are in accordance with the published regulations of the National Association of Schools of Music.

MAJOR IN THE SCHOOL OF PAINTING AND ALLIED ARTS. The School of Painting and Allied Arts provides curricula for those interested in combining general education with specialized training in the following fields: architecture, commercial design, constructive design, costume design, decorative design, plastic design, art history, drawing and painting, photography, and art education.

Students working toward the Bachelor of Fine Arts degree with a major in the School of Painting and Allied Arts must complete at least 32 semester hours of work in the school, including P. A. A. 11-12—Theory of Design and P. A. A. 45-46—Methods in Representation. To fulfill the requirements for the degree, they must also complete a minor of 24 semester hours of general courses in the fine arts. Students in the fields of architecture and photography may be excused from P. A. A. 11-12 and P. A. A. 45-46 upon the recommendation of the instructor and the approval of the director of the school.

Students with a major interest in the School of Painting and Allied Arts should include the following basic courses in their University College program:

P. A. A. 11-12—Theory of Design	4
P. A. A. 45-46-Methods in Representation	4
F. A. 17-18-Introduction to the Fine Arts	6

Six hours of English beyond the University College requirement are to be completed by candidates for the degree of Bachelor of Fine Arts with a major in painting and allied arts.

Elective courses, as well as those to meet degree requirements, should be chosen to fit the individual needs of the student.

ARCHITECTURE

Candidates for the Bachelor of Fine Arts degree may elect architecture as a field of concentration within the School of Painting and Allied Arts. A curriculum has been designed to provide an over-all knowledge of the subject supported by a study of the liberal arts and related fine arts. Students, upon completing the architectural curriculum, should be prepared for positions as architectural draftsmen and assistants in architects' offices, where they may gain practical experience usually required by state boards. Certain students with outstanding skill should

plan, upon receiving the B. F. A. degree, to pursue graduate study at one of the accredited schools of architecture.

For the student who chooses, upon graduation, to enter fields closely allied to architecture and building, opportunities exist in the design, manufacture, distribution, and installation of the materials of architecture. A developed, imaginative power and a structural sense are desirable attributes for work in industrial design and in the design and construction of display features and structures.

The architectural courses not only are available for those working toward a professional goal but are of general educational value to potential homeowners, to business and professional members of a community, in fact, to any persons who are interested in buildings for personal, commercial, educational, and recreational purposes.

PHOTOGRAPHY

Candidates for the Bachelor of Fine Arts degree electing photography as a field of concentration follow the regular sequence of photography courses during their freshman and sophomore years with advanced study in commercial and illustrative photography and portraiture.

The curriculum is planned to give students an opportunity to combine specialized study with a broad university training. Students are urged to enroll in such related courses as Theory of Design, Methods in Representation, Sketching, and Figure Drawing. They may elect, in the College of Commerce, courses which will aid them in their objectives.

The first two years of training in the fundamentals of photography will enable the student to carry out independently any assignment that may confront him in an average studio. The advanced courses in portraiture or commercial and illustrative photography, offered alternately and taught by outside lecturers, will give the student an opportunity for specialized training, which, within the limit of time devoted to them, will equal that offered by a professional school.

The student graduating with a major in photography will be capable of opening his own studio, working as a free-lance photographer, and finding employment in the broad field of professional photography or in the photographic industry. If he chooses to meet the state requirements for certification, he may plan to teach photography. While the number of positions in the educational field is somewhat limited, the demand for teachers of photography is increasing. It is especially desirable to prepare to teach some other subject in combination with photography.

MINOR IN THE FINE ARTS. All students who work toward the Bachelor of Fine Arts degree with a major in one of the three schools of the college must complete a minor of 24 hours in general courses in the fine arts, including F. A. 17-18—Introduction to the Fine Arts. In addition to this course, five others are offered from which the student must select

three: History of Painting and Sculpture, History of Music, History of Architecture, History of the Visual theatre, History of Oratory. Descriptions of the general courses may be found on page 199 under Fine Arts.

THE GRADUATE COLLEGE

DEGREES. The Graduate College offers work in academic and professional fields and confers the degrees of Master of Arts, Master of Science, Master of Education, and Master of Fine Arts.

ADMISSION. Subject to the usual regulations of the university, anyone who holds a bachelor's degree from an accredited college or university and who has an undergraduate scholastic average of 2.5 (or above) is eligible for admission. An applicant who holds the bachelor's degree from an accredited college or university and who has an undergraduate scholastic average below 2.5, or an applicant from an unaccredited college or university who has an undergraduate scholastic average of 2.5 (or above) will be admitted, provided he makes a satisfactory grade on the Graduate Record Examination and/or the C. A. V. D. Intelligence Examination and/or achieves a B level (70 percentile rank) on a standard college ability test.*

Application for admission should be made on a blank obtainable from the office of the director of admissions and must be accompanied by an official transcript of the applicant's college record, except in the case of a graduate of Ohio University. These documents should be filed with the director of admissions at least a month before the opening of the term in which the applicant begins his studies.

A student who qualifies for admission receives a permit to register. He then confers with the dean of the Graduate College who counsels with him regarding his plans for graduate study and directs him to the dean or department chairman who has supervision over the subject-matter field in which the student has chosen to do his graduate work. The dean or chairman will appoint the faculty adviser in the major and minor fields. The student's outline of graduate study is made by the advisers in conference with the student. A student may be registered in the Graduate College without becoming a candidate for a graduate degree. Therefore, admission to the Graduate College does not of itself constitute admission to candidacy for a degree.

A student who is qualified to enter the Graduate College but who

^{*}Information regarding these examinations and tests may be had at the office of the director of admissions or the office of the supervisor of testing service. While it is not required, except as indicated above, applicants for admission may submit their scores on the Graduate Record Examination as valuable evidence of fitness for admission. The Graduate Record Examination is a test of general, intellectual equipment with which Ohio University and other universities have had several years of experience. It is now being made widely available to prospective graduate students by the Carnegie Foundation for the Advancement of Teaching. Those who have taken this test are urged to have the Graduate Record Office report their scores to the registrar. Examinations will be given in February, May, August, and October. Further information about the Graduate Record Examination may be obtained by writing to The Graduate Record Office, 487 West 59th Street, New York 19, New York.

pursues courses with no regard to a major or minor and with no thought of qualifying for a master's degree is classified as a special student.

CREDIT AND RESIDENCE. At least 32 semester hours of credit are required for the master's degree. A maximum of eight semester hours of credit is accepted by transfer from approved institutions which offer the master's degree. Credit for courses taken by correspondence is not accepted toward the degree. A maximum of six semester hours taken in extension classes is accepted toward the degree, provided the courses are conducted by instructors who regularly teach them on the campus. A graduate student who is employed full time is limited to a load of three to six semester hours in a semester or a summer session with the approval of his adviser and the dean. The grade of incomplete, except in the case of thesis, research, and seminar courses, must be removed in accordance with rules which apply to undergraduate students. The grade of incomplete, except in the case of thesis, research, and seminar courses, must be removed in accordance with rules which apply to undergraduate students.

All work submitted for graduate credit shall be of high quality. The minimum standard acceptable is a point-hour ratio of 3.0 in all courses attempted for graduate credit, with no grade below C, and not more than 20 per cent of the work accepted with a grade of C.

After securing a bachelor's degree, an adequately prepared student may be able to complete the work for the master's degree in one year of two semesters, in four eight-week terms of the summer semester, or in a minimum of three eight-week summer terms and two three-week sessions. The minimum residence requirement is 30 weeks. A transfer student is required to have a minimum residence at Ohio University of one semester and one eight-week summer term, or three eight-week summer terms, or at least 24 weeks. A student who takes courses for graduate credit in extension classes is required to have a minimum residence at Ohio University of one semester and an eight-week summer term, or three eight-week summer terms and a three-week session, or at least 24 weeks.

The maximum time allowed between the date when a student is admitted to the Graduate College and begins graduate study and the date when the requirements for the degree are completed is six years. Students who do not complete their requirements for the degree within the six-year period are obliged to have their graduate outlines reviewed and revised in the light of current catalog requirements. An extension of time is given upon request to students who served in the armed forces and to other students whose circumstances are exceptional.

COURSES FOR GRADUATE CREDIT. Credit toward a graduate degree is given for the completion of courses designed for graduate students (numbered 300-399) and courses designed for advanced undergraduates and graduates (numbered 200-299), provided the courses are included in the student's approved program of study.

FEES. The fees for graduate students are the same as those for undergraduates. See "Fees and Deposits" for a full statement of fees.

PROGRAM OF STUDY. A student's program of study is made up of two parts, a major and a minor, unless a program otherwise arranged by the adviser is approved by the graduate council. Since graduate work implies advanced study and some degree of specialization, a minimum of 18 semester hours of undergraduate credit is presupposed before a student can pursue his major subject for graduate credit. As indicated later, exceptions to this rule are made for teachers of the social sciences and for students training for personnel work. Six to 12 semester hours in undergraduate preparation are usually sufficient to begin graduate work for a minor in the subject. The program in the major field varies from 12 to 20 semester hours exclusive of the thesis, for which from four to eight semester hours are allowed. The minor field in such cases makes up the remainder of the 32 semester hours required for the degree, and is selected from one or two fields of instruction closely related to the major field. However, all of the work for the master's degree may be done in one school or field on recommendation of the adviser and with the approval of the graduate council.

A graduate student in social science may follow any one of three optional plans of graduate study. Two of these plans are designed particularly for graduate students who have completed an undergraduate comprehensive social science major and who desire to continue this broad preparation at the graduate level. Students pursuing graduate study for personnel work or in the field of human relations are required to have a broad undergraduate preparation in the social sciences. Their graduate outlines will be made to suit individual requirements. Further information regarding these plans may be secured at the dean's office.

ADMISSION TO CANDIDACY. In order to be admitted to candidacy for the master's degree, a student must show his ability and fitness to pursue graduate work in his chosen field. This may be done by completing with satisfactory grades a minimum of 12 semester hours of the program of graduate study as outlined. The further conditions of admission to candidacy are a program of graduate study and a thesis subject acceptable to the major adviser and approved by the dean and the graduate council. Application for candidacy should be made on a form obtainable at the office of the dean and on a date not later than four months before the degree is to be conferred.

THESIS AND EXAMINATION. As partial fulfillment of the requirements for the master's degree, each candidate shall prepare a thesis under the direction of his major adviser on a subject approved by him and the graduate council. Credit on the thesis varies within a range of four to eight semester hours, the exact amount being determined by the major adviser. Furthermore, the candidate shall pass creditably an oral examination on a thesis approved by the major adviser and on the course work in his major and minor fields. The oral examination, approximately two hours in length, is conducted by a committee appointed by the dean,

consisting of a representative of the graduate council and members of the staffs of the schools, departments, or divisions in which the candidate has done his work.

The student who wishes to do so may take a comprehensive written examination of approximately six hours on course work and be excused from any questions on course work in the oral examination, provided he notifies his major adviser and the dean not later than one month before the degree is conferred that he prefers this option. If this option is chosen, the written examination is conducted by a committee of not fewer than three instructors, appointed by the dean of the Graduate College, and selected so as to include the director of the school or the chairman of the department in which the student is doing his major work.

The candidate prepares his thesis under the direction of his major adviser on a subject in the field of his major work. The thesis provides an opportunity for the student to formulate and express the results of his research and study. The thesis may vary in character from an extended essay representing critical reading, independent study, and the assimilation and interpretation of a considerable body of facts, to an account, sometimes more brief, describing a research project which makes some contribution to knowledge. With the approval of the graduate council, the thesis requirement may be met by the presentation of the results of creative activity or research together with a written essay indicating the purpose, procedure, bibliography, and problems involved in the work. A format which gives directions for writing the thesis may be obtained in the office of the dean of the Graduate College.

After the thesis is approved, and not later than five days before the degree is conferred, the candidate files two unbound copies of the thesis with the university librarian and one bound copy of the thesis with the dean of the Graduate College. The two copies filed with the university librarian are bound and retained in the university library, and the copy filed with the dean is presented to the school or department in which the work has been done.

GRADUATE APPOINTMENTS

Ohio University usually requires the services of 40 to 50 graduate assistants and graduate fellows. Graduate assistants are selected on a basis of merit from students who have received the baccalaureate degree from approved institutions and who wish to pursue work leading to the master's degree.

A graduate assistantship carries a stipend of \$650 for the academic year of two semesters and waiver of the general registration fee and laboratory fees. The graduate assistant is required to give 18 hours of service weekly to the department of his major or minor field, and is permitted to carry 8 to 12 hours of graduate work, the hours in excess of 8 being subject to the approval of the dean and the chairman of the department in which the student is doing his major work.

After a graduate assistant has satisfactorily completed two semesters of service, a student with an exceptionally good record may, on the recommendation of his department and the graduate council, be appointed a graduate fellow. The stipend of a graduate fellow for the academic year of two semesters is \$700 and waiver of the general registration fee and laboratory fees. The service given to the university and the student load carried are the same as for graduate assistants.

Graduate assistantships and graduate fellowships are usually available to qualified students in the following fields: botany, chemistry, commerce, dramatic art and speech, education, electrical engineering, English, history, home economics, industrial arts, journalism, mathematics, music, painting and allied arts, personnel divisions of the office of the dean of men and the office of the dean of women, physical welfare, physics, psychology, Romance languages, sociology, and zoology.

Application for a graduate assistantship or a graduate fellowship must be filed with the dean of the Graduate College by March 1. Application blanks may be obtained from the office of the dean of the Graduate College.

SPECIAL APPOINTMENTS IN PERSONNEL WORK. Five positions are open annually for graduate student deans in the office of the dean of women and two in the office of the dean of men. The appointees receive a stipend of \$650 each for the academic year of two semesters and waiver of the general registration fee and laboratory fees, and are expected to give 18 hours of their time weekly assisting the dean of women or dean of men. These appointees are expected to pursue graduate study in human relations or personnel work. Application may be made directly to the dean of women or dean of men not later than March 1.

Appointments are made about March 15.

THE DIVISION OF PHYSICAL WELFARE

The program for men includes activities involving physical efficiency and game skills. One year of physical welfare work is required of all men. At the close of each semester physical efficiency and sports tests will be given to determine who are to continue to register for physical welfare courses.

The two-year required program for women is on a basis of choice made from the following activities: hockey, soccer, basketball, gymnastics, tennis, volleyball, softball, badminton, swimming, folk dancing, modern dancing, tap dancing, and hiking. Men and women who for any physical reason are unable to participate in active exercise are assigned to adapted activities where they will receive special work according to their individual needs.

The division offers an extensive program of intramural sports and sponsors a recreational program. Instruction is given to interested

groups in extracurricular classes in the activities desired, thereby providing an opportunity for the less proficient students to develop skills and master game techniques.

By fulfilling the requirements, students who wish to major in the Division of Physical Welfare may apply for the following degrees: Bachelor of Science, Bachelor of Arts, or Bachelor of Science in Education.

A major in physical education prepares men and women students for the following positions: teacher of physical education in the elementary and secondary schools, teacher of health, playground director, athletic coach, camp counselor, and recreational leader for industrial concerns and municipalities. The university has been successful in placing graduates who are well qualified in these fields.

A curriculum is offered which prepares men and women for work in physical rehabilitation, such as work in connection with hospitals, sanitoria, and for recreational positions with industrial concerns and municipalities. For details see College of Arts and Sciences, page 105.

All students majoring in physical education are required to purchase the uniform prescribed by the Division of Physical Welfare.

The university requirements pertaining to physical welfare, military science, speech, and freshman lectures are not indicated in the curriculum below. See pages 74, 75, and 79.

The following courses constitute a teaching major in physical welfare.

MEN

Freshman	Program	
The University College program sho	uld include the following:	
First Semester Hours	Second Semester Hours	
Zool. 3—General Zoology 3 P. W. 6—Physical Activities 1	Zool. 4—General Zoology 3 P. W. 7—Physical Activities 1 H. Ec. 23—Elementary Nutrition 1	
Sophomore Program		
P. W. 102—Personal and Community	P. W. 150—Community Recreation 3	
P. W. 127—First Aid 2	Ed. 167h—Teaching of Health 3	
Zool. 123-Anatomy and Kinesiology 4		
Junior Program		
P. W. 119—Physical Activities 2	P. W. 120—Physical Activities 2	
P. W. 133—Theory and Practice of Adapted Activities 2	P. W. 167e—Athletic Coaching	
P. W. 153—Nature and Function of Play 2 Ed.167f—Athletic Coaching 2	H. Ec. 170—Growth and Development	
Ed.1671—Athletic Coaching	of the Child 3	
Senior Program		
P. W. 204—History and Principles of Physical Education 3	P. W. 206—Organization and Admin- istration of Physical Education 2	
WOMEN		

Freshman Program

The University College program	should include the following:
P. W. 1—Sports or	P. W. 4—Intermediate Swimming or
P. W. 6-Elementary Tap Dancing or	P. W. 8-Modern Dance1
P. W. 7-Modern Dance	
Zool. 3—General Zoology	3 H. Ec. 23—Elementary Nutrition1

Sophomor		
First Semester Hours P. W. 102—Personal and Community		
Hoolth 3	P. W. 122—Physical Activities2 P. W. 150—Community Recreation 3 Ed. 167h—Teaching of Health 3	
P. W. 121—Physical Acitvities 2 P. W. 127—First Aid 2 Zool. 123—Elements of Anatomy	Dai 1011 2000aing 01 100ain 11111111 0	
and Kinesiology 4		
Junior Program		
P. W. 131—Mass Games1	P. W. 132—Physical Education Practice_ 1 P. W. 133—Theory of Adapted	
P. W. 131—Mass Games 1 Ed. 167a—Teaching of Coaching 2 H. Ec. 170—Growth and Development of the Child 3	Activities 2	
of the Child 3	Ed. 167b—Teaching of Coaching 2	
Senior Program		
Ed. 167n—Teaching of Rhythmic Activities 1	Ed. 1670—Teaching of Rhythmic Activities	
P W 20-Instructors' Life Saving	Activities 1 P. W. 206—Organization and Administration of Physical Education 2	
Methods 1 Zool. 135—Elements of Physiology 4 P. W. 204—History and Principles of Physical Education 3		
Physical Education 3		
The following courses are sugg	ested to meet the 16 semester hours	
required by the State of Ohio Depa	rtment of Education for a teaching	
minor in physical education:		
	Hours	
1. Principles and Organization	4	
MEN AND WOMEN		
P. W. 153—Nature and Function of Play (2) P. W. 204—History and Principles of Physica P. W. 206—Organization and Administration		
	l Education (3) of Physical Education (2)	
P. W. 153—Nature and Function of Play (2) P. W. 204—History and Principles of Physica P. W. 206—Organization and Administration	l Education (3) of Physical Education (2)	
P. W. 153—Nature and Function of Play (2) P. W. 204—History and Principles of Physica P. W. 206—Organization and Administration 2. Theory and Practice MEN	1 Education (3) of Physical Education (2) WOMEN	
P. W. 153—Nature and Function of Play (2) P. W. 204—History and Principles of Physica P. W. 206—Organization and Administration 2. Theory and Practice MEN	WOMEN P. W. 4—Intermediate Swimming (1) P. W. 6—Elementary Tap Dancing (1) P. W. 7-8	
P. W. 153—Nature and Function of Play (2) P. W. 204—History and Principles of Physica P. W. 206—Organization and Administration 2. Theory and Practice MEN P. W. 6—Physical Activities (1)	WOMEN P. W. 4—Intermediate Swimming (1) P. W. 6—Elementary Tap Dancing (1) P. W. 7-8—Modern Dance (2) P. W. 15-16—Folk and National	
P. W. 153—Nature and Function of Play (2) P. W. 204—History and Principles of Physica P. W. 206—Organization and Administration 2. Theory and Practice MEN	WOMEN P. W. 4—Intermediate Swimming (1) P. W. 6—Elementary Tap Dancing (1) P. W. 7-8—Modern Dance (2) P. W. 15-16—Folk and National	
P. W. 153—Nature and Function of Play (2) P. W. 204—History and Principles of Physica P. W. 206—Organization and Administration 2. Theory and Practice MEN	WOMEN P. W. 4—Intermediate Swimming (1) P. W. 6—Elementary Tap Dancing (1) P. W. 7-8—Modern Dance (2) P. W. 15-16—Folk and National Dancing (2) P. W. 113—Hiking (1) P. W. 121, 122—Physical Activities (2-6) P. W. 131—Mass Games (1) P. W. 132—Physical Education	
P. W. 153—Nature and Function of Play (2) P. W. 204—History and Principles of Physica P. W. 206—Organization and Administration 2. Theory and Practice MEN	WOMEN P. W. 4—Intermediate Swimming (1) P. W. 6—Elementary Tap Dancing (1) P. W. 7-8—Modern Dance (2) P. W. 15-16—Folk and National Dancing (2) P. W. 113—Hiking (1) P. W. 121, 122—Physical Activities (2-6) P. W. 131—Mass Games (1) P. W. 132—Physical Education Practice (1)	
P. W. 153—Nature and Function of Play (2) P. W. 204—History and Principles of Physica P. W. 206—Organization and Administration 2. Theory and Practice MEN	WOMEN P. W. 4—Intermediate Swimming (1) P. W. 6—Elementary Tap Dancing (1) P. W. 7-8—Modern Dance (2) P. W. 15-16—Folk and National Dancing (2) P. W. 113—Hiking (1) P. W. 121, 122—Physical Activities (2-6) P. W. 131—Mass Games (1) P. W. 132—Physical Education	
P. W. 153—Nature and Function of Play (2) P. W. 204—History and Principles of Physica P. W. 206—Organization and Administration 2. Theory and Practice MEN P. W. 6—Physical Activities (1) P. W. 7—Physical Activities (1) P. W. 119—Physical Activities (2) P. W. 120—Physical Activities (2)	WOMEN P. W. 4—Intermediate Swimming (1) P. W. 6—Elementary Tap Dancing (1) P. W. 15-16—Folk and National Dancing (2) P. W. 113—Hiking (1) P. W. 121, 122—Physical Activities (2-6) P. W. 132—Physical Education Practice (1) Ed. 167n, 1670—Teaching of Rhythmic Activities (2)	
P. W. 153—Nature and Function of Play (2) P. W. 204—History and Principles of Physica P. W. 206—Organization and Administration 2. Theory and Practice MEN P. W. 6—Physical Activities (1) P. W. 7—Physical Activities (1) P. W. 119—Physical Activities (2) P. W. 120—Physical Activities (2) P. W. 120—Physical Activities (2)	WOMEN P. W. 4—Intermediate Swimming (1) P. W. 6—Elementary Tap Dancing (1) P. W. 7-8—Modern Dance (2) P. W. 15-16—Folk and National Dancing (2) P. W. 113—Hiking (1) P. W. 121, 122—Physical Activities (2-6) P. W. 131—Mass Games (1) P. W. 132—Physical Education Practice (1) Ed. 167n, 1670—Teaching of Rhythmic Activities (2)	
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THE DIVISION OF MILITARY SCIENCE AND TACTICS

Ohio University maintains an Infantry Unit, Air Corps Unit, and a Quartermaster Unit of the Reserve Officers' Training Corps, which was established under the National Defense Act of June 4, 1920. The board of trustees in 1935 entered into an agreement with the Federal Government for the establishment of a voluntary ROTC unit. In the fall of 1946, an advanced Air Corps unit and an advanced Quartermaster Corps unit were organized. Under the agreement made in 1935 the university maintained, until the opening of the fall semester of 1943, an elective course of military training for men students who were physically qualified.

Since the opening of the fall semester of 1943, and effective for the duration of the war only, all physically fit male students between the ages of 14 and 24, inclusive, are required to register for military science and tactics as follows: Students classified as freshmen, sophomores, and first semester juniors are required to register for four consecutive semesters or until the elementary course has been completed. Second semester juniors (those having completed at least 70 semester hours of credit) and seniors, unless excused in special cases, are required to register for military science each semester until they have completed the elementary course of training or are graduated.

Returning veterans who have been honorably discharged from military service and students in the 4-F classification are exempt from the military science requirements.

R.O.T.C. training consists of the elementary course of two years, followed by an advanced course of two years. Graduates of the elementary course are eligible to apply for the advanced course. A student who has successfully completed the advanced course and is recommended by the president of Ohio University and the PMS&T is commissioned as a second lieutenant of the Officer's Reserve Corps of the Army of the United States.

Men who have had one year or more of active service in either the Army, Navy, Marine Corps, or Coast Guard are also eligible to apply for admission to the advanced course. Selection of applicants, not to exceed a quota set by the War Department, is made by the president of the university and the PMS&T. Students entering the advanced course receive without cost a complete officer-type uniform and commutation of rations to be paid monthly. The amount of this commutation may vary slightly from time to time, but at the present time it is approximately \$20 per month. This allowance is in addition to benefits received by the veteran under the "G. I. Bill of Rights." Prospective students who desire further information should write to the Professor of Military Science and Tactics, Ohio University.

All necessary training equipment and the principal articles of uniform are issued to ROTC students by the Federal Government without cost. Articles so issued remain the property of the government and must be returned. A deposit of \$20 is required from each elementary course student. This deposit is returned upon presentation of a certificate from the military property custodian that all articles of uniform and equipment have been returned in good condition.

THE UNIVERSITY EXTENSION DIVISION

The University Extension Division offers work in the form of extension classes and correspondence study.

EXTENSION CLASSES. An instructor will be sent to a community once a week for an extension class provided a group of persons has agreed upon a course. The size of the group necessary depends upon the distance from the campus. The number and length of class periods are determined by the amount of credit allowed for the course. The university provides the regular instructor of the course or a member of the department in which the course is offered.

CLASSES FOR COLLEGE FRESHMEN. The Extension Division will offer a program of evening college classes at the freshman level in a community, provided the local board of education will apply for it, and provided the student enrollment is sufficiently large to justify the effort. Such a program is designed to meet the needs of high school graduates who find it inconvenient to go away to college. Students who attend evening college classes full time for two semesters have the opportunity of earning sufficient credits to have sophomore rank at Ohio University.

CORRESPONDENCE STUDY. Correspondence study extends the privilege of university training even more widely than extension classes. A wide variety of subjects in over 30 departments is offered and is taught by members of the regular faculty. The courses appeal to any person who wishes to engage in systematic study during his spare time. Courses may be studied on a credit basis or a non-credit basis, and registration can be made at any time.

HIGH SCHOOL SUBJECTS. On July 1, 1942, the Extension Division began teaching high school subjects by mail to care for the needs of students unable to secure needed high school credits at home. The application of an enrollee must be approved and signed by a high school principal.

ADMISSION. An extension class student or a correspondence student is not required to present an application for admission to the university. A student under 21 years of age cannot enroll in an extension class or in correspondence study for college credit unless he has fifteen units of high school work earned in an accredited secondary school. A person 21 years of age or over, however, who lacks the required high school units for college entrance may enroll for college credit in any course for which he has adequate ability.

To be admitted to Ohio University for correspondence instruction or for extension class instruction does not imply that the student will be admitted later for study in residence. A separate application must be filed with the director of admissions for admission to residence study.

VETERANS. Veterans of World War II may study in the Extension Division as class students or as correspondence students at government expense under the "G. I. Bill of Rights."

CREDIT. In extension classes and in correspondence study a student may earn as many as 40 semester hours toward the requirements for a bachelor's degree.

A graduate student may earn, under approved conditions, six semester hours of extension class credit to apply toward a master's degree. No credit toward a master's degree may be earned by the correspondence method.

Undergraduate students who are employed full time are limited to a registration of six semester hours each semester. Graduate students who are employed full time are limited to three semester hours each semester.

RECOGNITION. In 1931, Ohio University was admitted to membership in the National University Extension Association. This association is made up of over 60 of the recognized colleges and universities throughout the country which maintain divisions of university extension. The N. U. E. A. promotes standards and upholds them by strict procedures for the admission of colleges and universities to membership.

BLANKS. Applications for admission may be secured from the office of the registrar or from the director of the Extension Division. Registration blanks for extension classes may be obtained from the instructor at the time the class is organized.

Persons interested in any of the opportunities afforded by the Extension Division may obtain additional information by writing to the Director of University Extension, Ohio University.

THE SUMMER SCHOOL

The 1947 Summer School will consist of two sessions: an eight-week session and a post summer session.

The regular summer session will open on June 16 and close on August 9. The post summer session will open on August 11 and close on August 29 for most courses.

In order to assist persons whose education was interrupted by war service, and others who may desire such courses, the offerings in the post session are being made more flexible than usual, and during the eight-week session, if there is sufficient demand, courses covering four or five weeks and giving four or five hours of credit will be organized. Formal graduation exercises will be held at the end of the eight-week session.

In response to a request from the State Department of Education courses of benefit to primary and secondary teachers and those preparing for teaching in these fields are being made available in most departments of the university. Emphasis is also given to the program of the Graduate College.

A special bulletin covering the offerings of the Summer School is available and may be secured by sending a request to the Director of the Summer School, Ohio University.

THE BRANCHES

Following the cessation of hostilities American colleges and universities were deluged with applications for admission from many more persons than they had facilities to accommodate. Thousands of well-qualified applicants were, and are yet, unable to secure the educational opportunities they desire because the colleges and universities have no room for them.

Early in the emergency Ohio University advocated the establishment of closely integrated university branch schools and that residence credit be granted for work in these branches.

As a result, in September, 1946, Ohio University established three branch schools in the Southeastern Ohio area; one in Chillicothe, one in Portsmouth, and one in Zanesville. The university will continue the operation of these branch colleges throughout the present educational emergency.

All students regularly enrolled in the three branches are considered to be "regular" students of Ohio University and receive full residence credit for all successfully completed courses.

Work done at the branches is on the college level, and the same quality of scholastic performance is required of students as on the main campus. Approximately fifty per cent of the instructors for the branches are drawn from the resident staff members of Ohio University; the other fifty per cent are carefully selected on a part-time basis from leading industries, the professions, and the better qualified personnel of local high school faculties. Ohio University deans and faculty members outline and supervise all branch courses.

Students enrolled in the branches may transfer to the Athens campus at a normal break in the school calendar if: (a) facilities are available at Athens, (b) the student's scholastic record is such as to make it advisable, (c) the student's curriculum requirements cannot be met in the branches.

Course work in the branches is limited to those subjects ordinarily taught in accredited colleges during the freshman and sophomore years. It is impossible for Ohio University to offer branch work in certain technical fields where special apparatus is required beyond the freshman level.

The schedule of classes for the freshman year is selected to fulfill the University College requirements as well as to satisfy degree requirments for the College of Applied Science, the College of Arts and Sciences, the College of Commerce, the College of Education, and the College of Fine Arts. Courses are offered in:

Botany Geology Physical Welfare Chemistry German Physics

Engineering Drawing Government Psychology
Commerce History Romance Languages

Education Mathematics Sociology English Philosophy Zoology

Fine Arts

Work in the Colleges of Arts and Sciences, Commerce, and Education is continued through the sophomore year. The offerings include courses in Chemistry, Commerce, Education, English, Fine Arts, History, Mathematics, Philosophy, Physical Welfare, Psychology, and Sociology.

Branch classes are smaller in general than similar classes on the main campus. These smaller classes, which are comparable in size to pre-war days, lend themselves to more individualized instruction. Student counseling, convocations, social programs, and, to a limited extent, athletics, are a part of the general program at all of the branches.

Classes are held in the local high school classrooms, laboratories, and gymnasiums. They are scheduled in the late afternoon and evening to avoid conflict with high school classes.

The entrance requirements for the branches are the same as those for the Ohio University at Athens. Both veterans and non-veterans are admitted. A veteran will enjoy all of the advantages of the "G. I. Bill" during the period of his eligibility.

In the second semester of the academic year 1946-1947, the total branch school enrollment was 814. Of this number more than one half were veterans. The enrollment at the branches was: Portsmouth, 361; Chillicothe, 255; and Zanesville, 198.

Application for admission blanks may be secured from the Director of Admissions and University Examiner, Ohio University, Athens, Ohio; from Albert C. Gubitz, Director of Branches, Ohio University; or from the assistant directors of the branches. At Chillicothe the assistant director is Thomas J. Vernia; at Portsmouth, Ralph Elliott; and at Zanesville, Ellis B. Miracle.

COURSES OF INSTRUCTION

EXPLANATION

CATALOG NUMBER. The catalog number indicates the student classification for which the course is designed. The numbers are grouped as follows:

1-99 for University College students

100-199 for undergraduate students

200-299 for advanced undergraduate and graduate students

These courses are not open to sophomores even though they have fulfilled the prerequisites for the courses.

300-399 for graduate students

In general, an odd number indicates the first semester of a twosemester course; an even number, the second semester. An exception occurs in the numbers used for the teaching techniques courses.

Two numbers at the beginning of a course indicate a two-semester course. A hyphen between the numbers indicates that the course is a continuous course; that is, the first semester course is a prerequisite for the second semester. A comma between the numbers indicates that although the course is a two-semester course, the first semester course is not a prerequisite for the second semester.

CREDIT. Credit for a course is indicated by the number in parentheses. In a year course, this number refers to credit for a semester. A course with one semester hour credit (1) is the equivalent of one recitation or two or more laboratory periods a week throughout a semester. A course carrying variable credit, for example (4-8), indicates the minimum and maximum amount of credit allowed for the course. A student may enroll for a course with a variable credit any number of times for any number of semester hours, provided the total registration for the course does not exceed the maximum credit indicated. Exceptions: in Applied Music the variable credit refers to the amount of credit for which a student may enroll during a semester.

INSTRUCTORS. The instructors in a department are arranged according to priority of service within the respective ranks.

FEE. When a course requires a fee, the amount is stated in the description of the course. The fee is usually determined by the number of semester hours of credit at the rate of \$1 for each semester hour. For a two-semester course, the fee is stated for a semester.

ACCOUNTING

Professors Ray (chairman), Beckert Associate Professor Fenzel Instructors Saldin, Broman, Grinaker

75-76. ELEMENTARY ACCOUNTING

(3) Ray, Beckert, Fenzel, Saldin, Broman, Grinaker

The fundamental principles of accounting theory and practice as they affect corporations, partnerships, and proprietorships. The entire cycle of bookkeeping procedure. Ledger organization, expense controls, controlling accounts, and cost records with a discussion of exceptions and alternative methods constitute the work in Acct. 76.

81. ACCOUNTING SURVEY

(2) Beckert

Open only to noncommerce students in order that they may obtain a knowledge of general principles of accounting in a minimum of time.

101-102. SECRETARIAL ACCOUNTING

(3) Via

The fundamental principles of accounting with particular emphasis on their application in the accounts of institutions, societies, individuals, and professional men. Not open to students who have had Acct. 75-76.

125. INTERMEDIATE ACCOUNTING

(3) Fenzel

The preparation and analysis of balance sheet and income statements, principles of actuarial science, accounting for corporate net worth, consignments, installment sales, and current asset valuation. Prereq., 76 or 102.

133. SOCIAL SECURITY ACCOUNTING

(1-2) Beckert

Discussion of the various phases of the Federal Social Security Act and state social security laws and regulations. A study of time-keeping systems and systems of accounting used in keeping pay-roll or wage records. Prereg., 125.

161b. TEACHING OF BOOKKEEPING

Beckert

(Same as Ed. 161b) Prereg., 125.

175. COST ACCOUNTING

Manufacturing cost determination under the job-order and process systems. Prereq., 125.

195. ADVANCED PRINCIPLES OF ACCOUNTING

(3) Fenzel, Saldin

Actuarial science as related to accounting, principles of fixed asset valuation, liabilities, special phases of net worth accounting, and special statement analyses. Prereg., 125.

206. ADVANCED PROBLEMS OF ACCOUNTING

Problems peculiar to partnerships, receiverships, and fiduciaries; accounting for branch houses, ventures, governmental units, and brokers; consolidated statements; and foreign exchange as related to accounting. Prereg., 195.

224. STANDARD COSTS AND BUDGETS

(3) Ray

The establishment of cost standards, preparation of budgets, and analysis of cost variances. Prereg., 175.

243. INCOME TAX

(3) Saldin

A study of the current Federal Revenue Act and its application to hypothetical cases. Returns are prepared for individuals, partnerships, and corporations. Prereq., 125.

255. AUDITING PRINCIPLES

Beckert

Purposes and scope of audits and examinations; theory and principles of procedure. Prereq., 195.

256. AUDITING PRACTICE

Beckert

Problems of procedure consisting of comprehensive practice material based on an actual audit, supplemented by study of the content, design, and use of accountants' working papers and reports. Prereq., 255.

278. C. P. A. PROBLEMS

(3) Staff Member

The accounting profession; C. P. A. coaching; analysis, interpretation, and solution of problems selected from examinations given by various state boards of accountancy. Prereq., 255.

281. RESEARCH IN ACCOUNTING

(2-8) The Staff

Prereq., 175, 195, and permission.

391. SEMINAR IN ACCOUNTING

(2-10) The Staff

Prereq., 15 hrs. accounting and permission.

395. THESIS

(4-8) The Staff

Prereq., permission.

ADVERTISING

Professor Krauskopf (chairman) Instructor Turnbull

155. ADVERTISING PRINCIPLES

(3) Krauskopf, Turnbull

A survey of advertising which considers its place in the field of marketing and its fundamental principles as developed in special procedures relating to copy, mechanical production, media, testing and agency work. Prereq., Mkt. 155 or permission.

176. ADVERTISING PROBLEMS

(2) Krauskopf

A logical sequel to Advt. 155. It emphasizes administrative problems and the coordination of advertising with other marketing activities. Prereq., 155.

186. RETAIL ADVERTISING

(3) Krauskopf

The principles of advertising as related to the needs of retailers. Prereq., 155.

232. COPY WRITING

(2) Turnbull

The elementary essentials of copy developed by the study of current theory and analysis of tested examples. Considerable constructive work is required. Prereq., 155 and Ec. 102.

281. RESEARCH IN ADVERTISING

(2-8) The Staff

Prereq., 18 hrs. commerce including 5 hrs. advertising and permission.

391. SEMINAR IN ADVERTISING

(2-10) The Staff

Prereq., 18 hrs. commerce including 5 hrs. advertising and permission.

395. THESIS

(4-8) The Staff

Prereq., permission.

Additional courses:

Psych. 6—Psychology of Advertising and Selling

Jour. 146-Newspaper Make-up and Advertising Typography

Jour. 177—Newspaper Advertising Practice

Radio 209-Radio Advertising

Jour. 227—Public Relations Techniques

Jour. 228—Public Relations

Jour. 247-Newspaper Advertising and Layout

Jour. 248-Advertising Production

P. A. A. 147-148—Principles of the Space Arts in Advertising

P. A. A. 217-218—Advertising and Industrial Styling

AGRICULTURE

Professor Wiggin (chairman) Instructor Ellis

Students desiring training in agriculture may choose any one of three curricula or may elect a teaching major. (See page 82.)

I. GENERAL AGRICULTURE

(3) Wiggin

Planned to meet the needs of those preparing to teach agriculture and of those interested in the practical applications of the problems of general agriculture. 2 lec. and 2 lab. Fee, \$3.

FORESTRY

(3) Wiggin

The identification of trees and woods. A study of reforestation and conservation, and of the common forest practices as they apply to the farm woodlots of Southeastern Ohio. 2 lec. and 2 lab. Fee, \$3.

4. SILVICULTURE

(3) Wiggin

A study of the factors determining the character and form of forest vegetation. The development of forest types. Cultural and forest management. 2 lec. and 2 lab. Fee, \$3.

102. VEGETABLE GARDENING

(3) Ellis

Classification, description, use, culture, grading, storing, and marketing of vegetable crops. 2 lec. and 2 lab. Fee, \$3.

103. FRUIT GROWING

3) Ellis

The selection of an orchard location and the study of propagation, planting, fruit-setting, nutrition, thinning, disease and insect control, harvesting, grading, judging, storing, and marketing of tree fruits. 2 lec. and 2 lab. Fee, \$3.

104. SMALL FRUITS

(3) Ellis

A study of fruits other than tree fruits grown in Ohio. 2 lec. and 2 lab. Fee, \$3.

109. LANDSCAPE GARDENING

(3) Wiggin

The principles of landscape gardening as applied to home grounds, civic improvement, and the culture of lawns, ornamental flowers, and shrubs. 2 lec. and 2 lab. Fee, \$3.

110. NURSERY PRACTICES

3) Wiggin

The propogation of trees and ornamental plants commonly grown in nurseries. Transplanting and the culture of nursery stock to setting age. 2 lec. and 2 lab. Fee, \$3.

115. SOILS AND FERTILIZERS

(3) Ellis

The origin, types, physical properties, and distribution of soils, and their relation to crop production. Stable manure, green manure, and fertilizers as used in the maintenance of soil fertility. 2 lec. and 2 lab. Fee, \$3.

116. FIELD CROPS

(3) Ellis

A general course in the principles of plant growth with emphasis on the use of important cereal, grass, forage, and root crops. 2 lec. and 2 lab. Fee, §3.

117. SOIL CONSERVATION

(3) Ellis

A study of the common practices in soil conservation. 2 lec. and 2 lab. Fee, §3.

121. TYPES AND BREEDS OF FARM ANIMALS

l) Wiggi

A study of types and breeds of farm animals: their history, development, breeding, handling, and general management. Principles of judging. 2 lec. and 2 lab. Fee, \$3.

124. GENERAL DAIRYING `

Wiggin

The fundamentals of milk production, handling, marketing, and the manufacture of products made from milk. 2 lec. and 2 lab. Fee, \$3.

127. TYPES, BREEDS, AND MANAGEMENT OF POULTRY

(3) Wiggin

The origin and development of types and breeds, the general care and management of poultry, incubation, and the marketing of poultry products. 2 lec. and 2 lab. Fee, \$3.

131, 132. FLORICULTURE AND GREENHOUSE MANAGEMENT (2) Wiggi

A study of important cut-flower and pot-plant crops grown in greenhouses; the construction and management of greenhouses; flower store management and floral designing. 2 lec. and 2 lab. Fee, \$2.

135. FARM MANAGEMENT

(3) Ellis

The application of agricultural technology and economic information to the securing of maximum income from a farm. The course includes a study of securing a farm, planning the cropping program, selecting the livestock enterprises, selecting power and equipment, securing the necessary labor, and marketing the products of the farm.

143. PLANT AND ANIMAL BREEDING

3) Wiggin

The practical application of genetics to livestock and crop im-

provement including selection, inbreeding, crossbreeding, hybridization, pedigree analysis, progeny tests, and other practical breeding programs.

168a. TEACHING OF AGRICULTURE

(3) Staff Member

(Same as Ed. 168a) A consideration of aims and materials suitable for agricultural instruction in rural, village, and city schools. Use is made of field trips, laboratory, and lectures, Prereq., 8 hrs. and permission.

201-202. FARM PRACTICES

(3) Wiggin and Staff

A two-semester course in the various phases of advanced general agriculture. Required of all seniors. The agriculture department's farm, orchard, dairy, greenhouse, landscape operations, vegetables, poultry, and small fruits will be under the supervision of students, cooperating with the instructors. 1 lec. and 6 lab. Prereq., 1, 116, 121, 135, or permission.

222. AGRICULTURAL PROBLEMS

(3-5) The Staff

Designed to train the student in some important advanced laboratory methods and research problems encountered in the agricultural field, with an accompanying survey of available literature. 1 lec. and 4-8 lab. Prereq., permission.

226. FOREST SURVEY

(3-5) Wiggin

A field-laboratory study of special topics selected from: forest management, forest technic, natural and artificial regeneration of woodlots, locations and habitats of trees, forests and erosion, forestry, and permanent agriculture. 6-10 lab. Prereq., permission.

281. RESEARCH IN AGRICULTURE

(3-10) The Staff

Prereq., permission.

395. THESIS

(4-8) The Staff

ARCHAEOLOGY AND ANTIQUITIES

A major or a minor may be completed in this field by joining the courses described here with others selected from the list of "additional courses" which appears below.

101. INTRODUCTION TO ARCHAEOLOGY

(3) Hil

The history of the development of archaeology from its earlier stages to its present status of dignity and scientific method. Methods and techniques of archaeology, its aims and purposes, the general types of archaeological work and excavation with emphasis on some of the more important sites.

202. THE ARCHAEOLOGY OF THE MEDITERRANEAN AREA

(3) Hil

Designed to provide a comprehensive appreciation and understanding of the archaeological activities in this area. The archaeology of Palestine and Egypt, with emphasis on the Minoan (Cretan) and Mycenaean civilization. The archaeology of Greece and the Aegean Islands, and to a

lesser extent the archaeological remains of the Roman period. Prereq., 11 hrs. foreign language or 8 hrs. history (or art history) and antiquities.

240. SPECIAL WORK IN ARCHAEOLOGY

(2-8) Hill

Special study in selected phases and types of archaeology, such as the Biblical, early eastern, classical, and the more prominent cultures of Central and South America. Prereq., 202.

Additional courses:

- Ed. 250—The History of Education. Education among primitive peoples and on through ancient (especially classical), medieval, and modern times. See "Education."
- Eng. 120—Mythology in English and American Literature. A study of allusions to Classical, Teutonic, and Scandinavian mythology found in English and American literature. See "English."
- F. A. 121—History of Painting and Sculpture*. Art from the earliest times to the Renaissance, including Egyptian, Greek, Roman, and Byzantine periods. See "Fine Arts."
- F.A. 175—History of Architecture. From prehistoric beginnings through the development of the building cultures and the growth and spread of architectural types to the Renaissance. See "Fine Arts."
- Geol. 126—Historical Geology. History of the earth from its beginning with emphasis on the origin of forms of life and their development. See "Geography and Geology."
- Geol. 240—Paleontology.* A study of invertebrate fossils including larger forms of ancient (extinct and living) animal life. See "Geography and Geology."
- Gk. 55, 56—Contributions of Greek Civilization. Specific phases of ancient Greek civilization and their contributions to our own. See "Classical Languages."
- Gk. 14—Greek Epic in English. Ancient Greek epic in English with particular reference to style, content, and influence on later literature. See "Classical Languages."
- Gk. 211—Greek Drama in English. The dramatic literature of the ancient Greeks and the evolution of the theater. See "Classical Languages."
- Hist. 113—Ancient History. Beginning with the historic backgrounds, a study of the ancient Egyptian, Greek, and Roman civilizations. See "History."
- Lat. 229—Development of Roman Culture. Beginning with the archaeological evidence of prehistoric civilization in Italy it traces the stages and influences in the growth of Roman culture. See "Classical Languages."

Lat. 231—The Life of the Romans.* Ancient Roman life with emphasis on the evidence from archaeology and antiquities. See "Classical Languages."

Phil. 201—History of Ideas: Ancient and Medieval. From the beginnings of philosophical thought through the great philosophers of ancient times to the end of the medieval period. See "Philosophy."

Soc. 125—Social Anthropology.* Origin and development of our prehistoric ancestors from earliest times to Egyptian civilization. See "Sociology."

ARCHITECTURE

Visiting Lecturers Denison, Cellarius

55. FUNDAMENTALS OF ARCHITECTURE

(3) Denison

The nature of architecture. Progressive drafting room exercises. Drafting, sketching, rendering, and elementary design. 1 lec. and 4 lab.

56. FUNDAMENTALS OF ARCHITECTURE

(3) Denison

The principles of architectural design. A continuation of the drafting room exercises of 55. Design of small complete buildings. 1 lec. and 4 lab. Prereq., 55.

155-156. FUNDAMENTALS OF ARCHITECTURE

(4) Denison

The planning and the theory of architecture. An expansion of the drafting room exercises of 55 and 56 dealing with the design of small industrial, commercial, and public buildings. 1 lec. and 6 lab. each semester. Prereq., 56.

157-158. FUNDAMENTALS OF RESIDENTIAL ARCHITECTURE (2) Denison

Lectures on the fundamentals of residential architecture and housing during the first semester. Four hours drafting room work during the second semester.

179. ARCHITECTURAL MATERIALS

(2) Denison

A study of the materials used in buildings and the selection of these materials and equipment. 2 lec.

181-182. ARCHITECTURAL CONSTRUCTION

21 Denisor

A study of the methods of architectural construction in wood and masonry and the development of details as applied to residential and small commercial and public buildings. 2 lec. Prereq., 179 or permission.

183. ARCHITECTURAL EQUIPMENT

21 Denisor

A study of the mechanical equipment used in buildings. The design of plumbing and heating systems. 2 lec.

184. WORKING DRAWINGS

(2) Denison

Drafting room application of uses of materials and construction principles. 4 lab. Prereg., 182.

^{*}This and other courses starred are more specifically archaeological.

185-186. ARCHITECTURAL PROBLEMS

(3) Denison

A continuation of 155 dealing more extensively with commercial and public buildings with emphasis on co-operative work in preparing architectural studies, design, and working drawings and details. 6 lab. each semester. Prereq., 156 and 181.

Suggested courses:

P. A. A. 11-Theory of Design

P. A. A. 45-Methods in Representation

P. A. A. 171-172—House Decoration

P. A. A. 213—Advanced House Decoration

ART HISTORY

Professor Way Instructor Calkin

125. THE ARTS IN EVERYDAY LIFE

(2) Way

Planned to help the student appreciate and select the best articles available for the home, costume, etc., according to their functional qualities.

157. APPRECIATION OF THE SPACE ARTS

(I) Way

Appreciative study of line, mass, color, and form through design, architecture, sculpture, and painting.

203. ITALIAN RENAISSANCE PAINTING

(3) The Staff

The development of painting in Italy during the Renaissance from the early Florentine and Sienese schools through the fifteenth and sixteenth centuries in central and northern Italy. Prereq., 8 hrs. including F. A. 122.

390. SEMINAR IN HISTORY OF THE SPACE ARTS Prereg., 18 hrs. including F. A. 122.

(2-5) The Staff

395. THESIS

(4-8) The Staff

Prereq., permission. Fee, \$1 per credit hour.

Additional courses:

F. A. 121, 122—History of Painting and Sculpture

F. A. 175, 176—History of Architecture

For allied courses see:

Design, page 171.

Painting, page 243.

Sculpture, page 269.

ATHLETICS-COACHING—Also See Education and Physical Welfare

Associate Professors Don C. Peden, director of intercollegiate athletics, and

head coach of baseball;

William J. Trautwein, head coach of basketball; Harold E. Wise, head coach of football

Asistant Professors Thorwald Olson, head coach of wrestling; Kermit A. Blosser, assistant coach of football and wrestling Instructors Roy F. Pille, head coach of track; James E. Snyder, assitant coach of football and basketball

AVIATION

Professor Wilsey (chairman) Instructor Smeck

99. CONTROLLED PRIVATE FLYING

(1) Smeck Flying Service

Preliminary ground instruction, taxiing, take-offs, landings, spins, forced landings, solo flights, practice of stalls, cross-wind take-offs, and landings, power approaches and landings, cross-country flight. 3 lab. Prereq., see "Aviation" under "College of Applied Science." Fee, \$292.50 minimum, plus insurance.

100. ELEMENTARY AVIATION

(2) Wilsey

Aviation history, aircraft nomenclature and identification, regulations, meteorology, theory of flight, and navigation.

121. AERODYNAMICS AND REGULATIONS

2) Wilsey

Aerodynamics and Civil Air Regulations for Commercial Pilots. 2 lec. Prereq., 99.

122. AERONAUTICAL NAVIGATION

(2) Wilsey

Pilotage, dead reckoning, radio and celestial navigation. 2 lec. Prereq., 99.

124. AIRCRAFT ENGINES AND STRUCTURES

(3) Wilsey

A treatment of engines and structures as required for the Commercial Pilot's Certificate. 2 lec. and 2 lab. Prereq., 99.

129. SECONDARY COURSE

(1) Smeck Flying Service

Taxiing, take-offs, landings, S-turns, rectangular courses, crosswind take-offs and landings, power landings, forced landings, advanced stalls, precision and accidental spins, chandelles, lazy eights, wing overs, loops and rolls. Instruction in advanced acrobatics given in 185 H.P. advanced trainers. 1 lab. Prereq., 99. Fee, \$292.50 minimum, plus insurance.

130. CROSS COUNTRY

(1) Smeck Flying Service

Taxiing, precision take-offs, timed turns to headings, procedure let downs, approaches and landings, cross-country cruising, procedures, al-

ternate airport and radius of action problems, use of radio, radio loop direction finding, bracketing beam, flying radio range, controlled airport procedures, cross-country flights of at least 300 miles using all possible radio aids. Ships used in this program are cabin planes of higher horse power. 1 lab. Prereq., 99 and 122. Fee, \$292.50 minimum, plus insurance.

131. COMMERCIAL QUALIFYING

(1) Smeck Flying Service

Taxiing, take-offs and landings, S-turns, rectangular course, 360° and 180° overhead approaches, forced landings, 720° power turns, pylon eights, chandelles, lazy eights, stalls, power approaches, night landings and take-offs. Instruction given in light and advanced trainers, large cabin ships. 1 lab. Prereq., permission. Fee, \$492.50 minimum, plus insurance.

132. INSTRUCTORS COURSE

(1) Smeck Flying Service

Consists of a general review of elementary and advanced flight maneuvers, methods of instruction, demonstration of maneuvers, practice instruction analyzing student errors. Instruction given in light and advanced trainers. 1 lab. Prereq., permission. Fee, \$292.50 minimum, plus insurance.

133. INSTRUMENT FLYING

(1) Smeck Flying Service

Civil Air Regulations, meteorology, theory of flight, use of instruments and navigational aids necessary for navigation of aircraft by instruments. Instrument instruction in both aircraft and Link trainer. 1 lab. Prereq., 99, plus 200 flight hours. Fee, \$367.50 minimum, plus insurance.

134. MULTI-ENGINE CLASS RATING

(1) Smeck Flying Service

Preliminary ground instruction and flight maneuvers in accordance with C. A. A. Air Regulations. 3 lab. Prereq., permission. Fee, \$375 minimum, plus insurance.

Note: For other courses related to aviation see those listed under "Aeronautical Structural Option" on page 87. See also Geol. 176—Aeronautical Meteorology, and Bus. Law 185—Avation Law, and courses under civil and electrical engineering.

BOTANY

Associate Professors Boetticher, Blickle (chairman)
Assistant Professors Vermillion, Wallace

The major requirement in botany for the A. B. degree is a minimum of 24 semester hours in approved departmental courses; for the B. S. degree, 36 semester hours. These courses must include Bot. 1, 2 and 10 additional hours selected from the following courses in morphology, physiology, and taxonomy: Bot. 107, 117, 172, 173, 174, 175, 205, 206, 207, 208, 215, 216, with at least one third of the required hours in the major selected from courses numbered 200 or above.

The following related courses in other departments are suggested as electives: Chem. 115-116, 119-120; Geol. 125, 126, 220, 240; Phys. 1, 2; Zool. 3-4, 107, 115, 119, 141, 211, 212, 213, 220, 228, 234, 236.

BOTANY 159

Students desiring to qualify for admission to schools of forestry and conservation should plan their curriculum according to the preforestry program of studies outlined on page 83. They should complete at least two years' training in either the College of Arts and Sciences or the College of Applied Science, or the equivalent of such training. Students desiring to prepare for a civil service examination in a particular government service or agency should consult with department advisers.

1,2. GENERAL BOTANY (3) The Staff

A study of the structure and physiology of plants and of their applications to human welfare; followed by a survey of the groups of the plant kingdom, their life cycles, reproduction, genetics and fundamental interrelations with man and other animals. 2 lec. and 2 lab. Fee, \$4.

107. CLASSIFICATION OF PLANTS

(3) Boetticher

A study of the general principles of the systematic arrangement of plants including field and herbarium work with the local flora with special emphasis on herbaceous higher plants. 2 lec. and 2 lab. Prereq., 1, 2. Fee, \$4.

108. VEGETATION OF NORTH AMERICA

(2) Wallace

An illustrated lecture-demonstration course considering the extensive plant formations of the United States, Canada, and Alaska and their relations to the several environmental factors and to human welfare. Prereq., a year in chemistry, geology, or zoology. Fee, \$2.

109. PLANT GEOGRAPHY OF THE WORLD (Not offered in 1947-1948)

2) Blickle

An illustrated lecture-demonstration course considering the general features of the great plant formations of the world including the tropical selvas and monsoon forests, the deciduous forests, the taiga, the deserts, the tundra, etc., their mutual influence, their relations to environmental factors and the biota. Prereq., a year in chemistry, geology, or zoology. Fee, \$2.

111, 112. ECONOMIC BOTANY

(2) Vermillion

A study of the origin, uses, and economic importance of plants and plant products, and the application of botany to modern industrial life. 1 lec. and 2 lab. Prereq., 1, 2. Fee, \$3.

115. PHYTOPATHOLOGIC TECHNIQUES (Not offered in 1947-1948)

(3) Vermillion

An introductory course designed to give practice in the culturing and microscopic study of plant disease organisms, and general procedures in doing experimental work in phytopathology. 1 lec. and 4 lab. Prereq., 2. Fee, \$3.

117. DENDROLOGY

(3) Blickle

A field and laboratory course in identification of native and introduced woody plants in both summer and winter aspects by use of keys and by examination of gross features of wood. 2 lec. and 2 lab. Prereq., 1, 2. Fee, \$4.

131. THE SCHOOL MUSEUM (Not offered in 1947-1948)

(2) Blickle

A study of the organization, care, and use of the school museum. Practice in the Ohio University Museum.

133, 134. NATURE STUDY

(3) Boetticher, Vermillion

A course in which the student is introduced to a better understanding and appreciation of the living things in nature about him. 2 lec. and 2 lab. Fee, \$3.

168b. TEACHING OF BOTANY

(2) Boetticher

(Same as Ed. 168b) A review of the various methods now employed, followed by actual practice in lecturing, laboratory procedures, and field work. Prereq., 1 yr. botany or zoology.

168g. TEACHING OF GENERAL SCIENCE (Not offered in 1947-1948)

(2) Boetticher

(Same as Ed. 168g) Practice in the construction of general science apparatus, and demonstrations of scientific laws through the utilization of common things near at hand. Also a review of science texts in current use. Prereq., 1 yr. of science.

172. PLANT ANATOMY (Not offered in 1947-1943)

3) Blickle

A course designed to embody a comprehensive study of the internal structure and development of the organs, tissues, and cells of the vascular plant body. 2 lec. and 2 lab. Prereq., 1, 2. Fee, \$4.

173. MORPHOLOGY AND PHYSIOLOGY OF THE FUNGI (4) Vermillion

A course dealing with the form and functions of macroscopic and microscopic fungi, external and internal structures and reproduction, and and a general survey of classes and their possible morphologic and phylogenetic relationships. 2 lec. and 4 lab. Prereq., 1, 2. Fee, \$4.

174. MORPHOLOGY AND TAXONOMY OF THE ALGAE (4) Vermillion

A course dealing with the form, structure, classification, relationships, reproduction, and environmental relations of the algae. 2 lec. and 4 lab. Prereq., 1, 2. Fee, \$4.

175. TAXONOMY OF THE NON-VASCULAR PLANTS (3) Boetticher

A course dealing with the classification and phylogeny of the bryophytes, lichens, and higher fungi. 2 lec. and 2 lab. Prereq., 1, 2. Fee, \$3.

203, 204. PRINCIPLES OF PLANT ECOLOGY

(4) Boetticher

A course dealing with the biological studies of natural plant communities and their dynamics, with the cause and effect relation between the habitat on the one hand, and the organism and community on the other. Special attention to plant development. 3 lec. and 2 lab. Prereq., 107 or 108 or 109. Fee, \$4.

205, 206. PLANT PHYSIOLOGY

(4) Wallace

A course treating of the water relations of plants, absorption, diffusion, colloidal phenomena, plant nutrients, photosynthesis, transpiration, foods and translocation, plant enzymes, hormones, growth and tropisms, reproduction, and their correlation with development. 2 lec. and

BOTANY 161

4 lab. Prereq., 1, 2 and a year of chemistry in high school or college. Fee, \$7.

207. MORPHOLOGY OF THE BRYOPHYTES AND PTERIDOPHYTES

(Not offered in 1947-1948) (4) Blickle

A study of the internal and external form and structure and of the life histories of mosses, liverworts, ferns, and allied plants, giving a basis for discussion of relationships and the probable evolution of the chief groups. 2 lec. and 4 lab. Prereq., 1, 2. Fee, \$4.

208. MORPHOLOGY OF THE GYMNOSPERMS AND ANGIOSPERMS

(Not offered in 1947-1948) (4) Blickle

A continuation of the field of study opened by course 207, but may be taken independently. The course treats of higher plants, their form, structures, and life histories. 2 lec. and 4 lab. Prereq., 1, 2. Fee, \$4.

209, 210. PLANT MICROTECHNIC (Not offered in 1947-1948) (3) Boetticher
The killing fring imhedding actioning staining and mounting of

The killing, fixing, imbedding, sectioning, staining, and mounting of plant tissues, and the use of the camera lucida, calibration, and photomicrographic practices. 2 lec. and 2 lab. Prereq., 1, 2. Fee, \$5.

211. PALEOBOTANY

(3) Blickle

A study of the fossil representatives of the greater plant groups and the sequence of fossil floras throughout geological time. Special attention is given to the fossil ferns and gymnosperms of the Paleozoic era. 2 lec. and 2 lab. Prereq., 1, 2 and 6 hrs. geology. Fee, \$3.

212. PALEOBOTANY

(3) Blickle

A continuation of the field of study opened in course 211. The emphasis is placed on the field-laboratory method of study of fossil plants employing the most modern methods of investigation. 1 lec. and 4 lab. Prereq., 1, 2 and 6 hrs. geology. Fee, \$3.

215. TAXONOMY OF VASCULAR PLANTS (Not offered in 1947-1948)

(3) Boetticher

A study of the systematics, nomenclature, and phylogeny of the ferns, fern allied plants, and gymnosperms, with special attention paid to their reproductive structures and general organography as applied to training in identification. 2 lec. and 2 lab. Prereq., 107 or 175. Fee, \$4.

216. TAXONOMY OF VASCULAR PLANTS (Not offered in 1947-1948)

(3) Boetticher

A continuation of the field of study opened by course 215 offering training in the identification and classification of herbaceous and semi-woody monocotyls and dicotyls and the employment of modern herbarium methods for their preservation as historic herbaria. 2 lec. and 2 lab. Prereq., 215. Fee, \$4.

218. WOOD TECHNOLOGY

(3) Blickle

The structure, identification, properties and uses of North American woods, with special attention given to the microscopic structure of woods. 2 lec. and 2 lab. Prereq., 117. Fee, \$3.

220. BOTANICAL STUDIES

(2-6 in any of the following)

Semi-independent studies supervised by the instructor. May include interdepartmental studies under the combined supervision of more than one instructor. Prereq., 9 hrs., or 6 hrs. and 6 hrs. in chemistry, geology, or zoology. Fee, \$1 for each credit hour.

- a. Morphology—studies of the fundamental plant form, structure, life cycles, and reproduction. Blickle, Vermillion.
- b. Physiological Botany—studies of the primary functions, processes, and growth phenomena of plants. Wallace.
- c. Ecological Botany—studies of the interrelations of plants to one another and to the environment, plant distribution, and the influence and significance of plant successions. Boetticher, Wallace.
- d. Taxonomy—studies in the principles, theories, and systems of plant classification and the phylogenetic relations of both higher and lower plants. Boetticher.
- e. Plant Anatomy—studies in the internal histology and cytology of plant organs, tissues, and cells. Blickle.
- f. Pathology—studies in the nature, prevention, cause and control of plant diseases. Vermillion.
- g. Economic Botany—origin, uses, and economic importance of plants and plant products, their application to human welfare and modern industrial life. Vermillion.
- h. Plant Genetics—studies of the mechanism of heredity in plants, genes, their transmission from generation to generation, and how they produce plant body characteristics. Wallace.
- i. Dendrology and Wood Technology—studies embracing the structure, identification, properties and uses of North American trees and woods, their occurrence and distribution. Blickle.
- j. Paleobotany—studies dealing with the fossil representatives of the greater plant groups, their importance and sequence throughout geological time. Blickle.

221, 222. PLANT PATHOLOGY (Not offered in 1947-1948) (3) Vermillion

A general course dealing with the nature, cause, and control of plant diseases. The various types of causal factors are studied in actual examples of the diseases they cause in plants. 2 lec. and 2 lab. Prereq., 1, 2. Fee, \$4.

223. DISEASES OF VEGETABLE CROPS

(2) Vermillion

A course considering the causes, controls, and characteristic symptoms of some of the more important field, storage, and market diseases of vegetable crops. The course is designed for those students who have a special interest in vegetable crops, either from the standpoint of the grower or from that of the storage and market man. 1 lec. and 2 lab. Prereq., 221. Fee, \$3.

224. FOREST PATHOLOGY (Not offered in 1947-1948)

(2) Vermillion

Principles and methods involved in the prevention and control of damage to forest by disease; survey of the important forest and shade tree diseases and their relation to forest management and forest utilization. 1 lec. and 2 lab. Prereq., 221, and 117 or Agr. 3. Fee, \$3.

281. RESEARCH IN BOTANY

(2-8) The Staff

Research work leading to the fulfillment of thesis requirements. The work may be carried in any of the several fields listed under Botanical Studies (Bot. 220 a-j). Prereq., 20 hrs. and permission. Fee, \$1 for each credit hour.

391. SEMINAR IN BOTANY

(1-4) The Staff

Advanced study and original research. Prereq., 15 hrs. and permission.

BUSINESS LAW

Professor Dykstra (chairman)

155-156. BUSINESS LAW

(3) Dykstra

The principles of law involved in contracts, agency, sales, bailments, negotiable instruments, and corporations.

159. BUSINESS LAW

(3) Dykstra

An abridged course covering the topics considered in Business Law 155-156. It is designed primarily for those who wish to elect three hours of law and for those who must have three hours to meet requirements. It cannot be substituted to meet the six-hour requirement of College of Commerce students.

175. GOVERNMENT AND BUSINESS

(3) Dykstra

Statutes, and court decisions interpreting them, by which federal, state, and local governments control, regulate, and aid business. A study of federal control under the commerce clause, of state police powers, and of the anti-trust laws. Prereq., junior rank.

185. AVIATION LAW

(2) Dykstra

The study of federal and state aeronautical acts and leading court decisions affecting aviation. Legal problems encountered in the establishment and operation of airports and carriage by air; including taxation; insurance and workmen's compensation; the torts of trespass, nuisance, and negligence; contractual relationships; crimes; international conventions. Prereq., junior rank.

242. LAW OF REAL ESTATE

(2) Staff Member

Deeds, mortages, leases, and other interests in real property, and the relationships between landlord and tenant. Prereq., 156.

281. RESEARCH IN LAW

(2-8) The Staff

A study of selected cases and current litigation in any field of law of particular interest to the student. Prereq., 18 hrs. commerce including 156 and permission.

CHEMISTRY

Professors J. R. Morton, Dunlap, Clippinger (chairman)
Associate Professors Gullum, Eblin, Burke
Acting Instructors C. T. Anderson, McClelland

The major requirement in chemistry for the A. B. degree is a minimum of 26 semester hours including Chem. 1-2 or 3-4 (8); 105, 106 (3-6); 107 or 109-110 (4-10); 113 or 115-116 (lec.), 117 or 119 (lab.), (6-8); 213-214 or chemistry electives above 200 (3-6).

The major requirement in chemistry for the B. S. degree is a minimum of 38 semester hours including Chem. 1-2 or 3-4; 105, 106; 109-110; 115-116, 119; and 213-214 or approved chemistry electives above 200.

Students who plan to enter the field of chemical industry are advised to add the following to the above requirements: Chem. 120 and approved electives (14-17); Ec. 101-102; Geol. 125; Math. 118, 125; Phil. 109; Phys. 113, 114 and approved electives.

For the requirements for the degree of $B.\ S.$ in Chemistry, see page 99.

1-2. GENERAL CHEMISTRY

(4) Gullum

3 lec. and 3 or 4 lab. Offered each semester. Fee, \$10.

3-4. GENERAL CHEMISTRY

(4) Burke, Eblin

A course in general inorganic chemistry with laboratory work. Laboratory in Chem. 4 is devoted to qualitative analysis. 3 lec. and 3 or 4 lab. Prereq., high school chemistry. Fee, \$10.

105, 106. QUALITATIVE ANALYSIS

(3) Gullum

The separation and detection of metals. Chem. 106 continues with a complete qualitative analysis of simple substances and mixtures. 1 lec. and 8 lab. Prereq., for 105, 2 or 4; for 106, 105 or 4. Fee, \$10.

107. QUANTITATIVE ANALYSIS

(4) Clippinger

A one-semester course in analytical chemistry for students majoring in zoology. The laboratory and lecture work will include the practical, theoretical, and problem phases of acidimetry, alkalimetry, iodometry, and some colorimetry. Not open to chemistry majors. 2 lec. and 6 lab. Offered each semester. Prereq., 2 or 4. Fee, \$12.

109-110. QUANTITATIVE ANALYSIS

(5) Clippinger

The problem side of analytical chemistry as well as the laboratory. The course teaches the rapidity and accuracy necessary to analytical work; the interpretation of results and the exercise of care and integrity. Primarily volumetric analysis. In Chem. 110 the following phases are considered: iodometry, volumetric precipitation, electrolytic and electrometric analysis, and gravimetric procedure. 3 lec. and 6 lab. Prereq., 105 or permission. Fee, \$12.

113. ORGANIC CHEMISTRY

(4) Dunlap

A one-semester course covering fundamental reactions and practical

applications. Designed for students in home economics, medical technology, and predental courses. Offered each semester. Prereq., 2 or 4.

115-116. ORGANIC CHEMISTRY

(3) Morton

A course in organic chemistry designed for premedical, chemistry, and zoology majors. Prereq., 2 or 4.

117. ORGANIC CHEMISTRY LABORATORY

(2) Burke

A one-semester course in preparations and reactions designed for students in home economics, medical technology, premedical, and predental courses. Offered each semester. 6 lab. Prereq., 113 or with 113; or 116 or with 116. Fee, \$12.

119-120. ORGANIC PREPARATIONS

(2) Burke, Dunlap

Practical work in organic chemistry. 6 lab. Prereq., 115 or with 115; or 113 or with 113. Fee, \$12.

168s. TEACHING OF CHEMISTRY AND LABORATORY PRACTICE (2-4) Morton (Same as Ed. 168s) Instruction and practice in laboratory teaching and supervision. Prereq., permission.

201-202. INORGANIC PREPARATIONS

(4) Clippinger

A fundamental course in the preparation of typical chemical substances in the pure condition. The course illustrates the general methods of simple crystallization in the presence of isomorphous impurities. Several electrochemical preparations are included. Laboratory and conferences. Prereq., 109. Fee, \$12.

205. ADVANCED QUANTITATIVE ANALYSIS

3) Clippinger

Special problems in analytical chemistry. Prereq., 110 and permission. Fee, \$12.

206. INDUSTRIAL ANALYSIS

(3) Clippinger

The analysis of oils, gases, and water, with problems for interpretation. Prereq., 110. Fee, \$12.

209. ADVANCED ORGANIC CHEMISTRY

(3-6) Dunlap

A presentation of special topics in the field of organic chemistry. Contributions of organic chemistry to fundamental chemical principles and the applications of chemical theories to problems of organic chemistry are emphasized. Prereq., 120.

213-214. PHYSICAL CHEMISTRY

(3) Morton

Prereq., 116, Math. 117 or with 117, and Phys. 6 or 114.

215-216. PRACTICAL PHYSICAL CHEMISTRY

(3) Morton

6 lab. Prereg., 213, 214 or with 214. Fee, \$12.

217-218. ADVANCED PHYSICAL CHEMISTRY

(2-12) Morton, Eblin

Prereq., 214 and Math. 118.

221. QUALITATIVE ORGANIC ANALYSIS

(3) Dunlap

The separation and identification of organic compounds. Preliminary to research in organic chemistry. 1 lec. and 6 lab. Prereq., 120. Fee, \$12.

224. METALLOGRAPHY

(3) Clippinger

A study of metallic structure, heat treating, polishing, microscopic examination, and photographing of steels and other alloys. Prereq., 214. Fee, \$12.

225. ELECTROCHEMISTRY

(2) Clippinger

A study of the fundamentals of electrolysis, the phenomena of electrolytic dissociation, conductance, transference, electrokinetics, electromotive force of concentration and oxidation-reduction cells, polarization, and depolarization. Practical applications of electrolytic reduction and oxidation. Prereq., 214.

228. COLLOID CHEMISTRY

(3) Eblin

Theoretical discussion and applications to various fields. Prereq., 16 hrs.

229-230. CHEMICAL ENGINEERING

(3) Dunlap

A study of the fundamental principles of unit operations with problems to illustrate the theories. Prereq., 214.

231-232. PRACTICAL CHEMICAL ENGINEERING

(2) Dunlap

Laboratory practice in heat transfer, filtration, distillation, etc. Prereq., 229 or with 229. Fee, \$12.

251. SPECIAL PROBLEMS IN CHEMISTRY

(2-12) The Staff

A consideration of special problems and methods as applied to the chemical industries. Prereq., 24 hrs. with a B average in chemistry. Fee, lab. \$5 for each credit hour.

381. RESEARCH IN CHEMISTRY

(2-12) The Staff

Prereq., 36 hrs. Fee, lab. \$5 for each credit hour.

395. THESIS

(2-4) The Staff

Prereq., permission.

CHINESE

Associate Professor W. J. Smith

1-2. CHINESE LANGUAGE

(3) W. J. Smith

An elementary course. Drill in conversation (Mandarin dialect) and simple reading assignments.

CLASSICAL LANGUAGES

Professor Hill (chairman) Associate Professor Jolliffe

Two types of courses are included: (1) courses in the Greek and Latin languages and literatures in the original; and (2) courses for which no knowledge of the language is required. These latter courses are open to students throughout the university who may desire to add to their knowledge in these backgrounds of modern civilization.

GREEK

1-2. BEGINNING GREEK

(4) Hill

An introductory study of the language leading to the reading of selections from classical authors. Attention to the Greek element in English.

14. GREEK EPIC IN ENGLISH*

(1) Jolliffe

Homer's *Iliad* and *Odyssey* are read in English with special attention to their style, development, narrative, content, and their influence on later literature.

27. GREEK WORDS IN ENGLISH*

(2) Hill

Literary and scientific terms of Greek origin which provide a major part of the technical and semitechnical vocabulary in many of the cultural and professional fields. Special laboratory assignments for developing the student's vocabulary in the range of his particular interests.

55, 56. CONTRIBUTIONS OF GREEK CIVILIZATION*

(1) Hill

A study of the contributions of Greek civilization to modern life. Such specific subjects as history, political science, geography, music, literature, medicine, architecture, mathematics, and the sciences are considered for the part Greece had in their development.

101-102. XENOPHON, HOMER, AND PLATO

(3-6) Jolliffe

The reading of parts of Xenophon's Anabasis with some review of language principles. Selections from Homer's Iliad or Odyssey in alternation, followed in Gk. 102 by Plato's Apology and Crito or the Phaedo with some attention to related philosophical works. Prereq., 2.

211. GREEK DRAMA IN ENGLISH*

(2) Jolliffe

The evolution of the theater. Class presentation and discussion of the great Greek tragedies as well as some comedies of Aristophanes and Menander. Prereq., 12 hrs. English, or 6 hrs. English and 6 hrs. foreign language or dramatic art.

216. NEW TESTAMENT GREEK

(2) Hill

Prereq., 11 hrs.

309. GREEK LYRIC POETS

(2) Hill

Theocritus, Pindar, and Sappho. Prereq., 14 hrs.

310. THE GREEK ORATORS

(2) Hill

Selections chiefly from Lysias and Demosthenes. Prereq., 14 hrs.

^{*}No knowledge of Greek required.

LATIN

1-2. BEGINNING LATIN

(4) Jolliffe

Corresponds to first two years of high school Latin. Introductory course leading to the reading of easy Latin stories of history and mythology with selections from Caesar's *Gallic War* in the second semester. Emphasizes the Latin influence on the language, literature, law, and customs of the modern world.

3. CICERO'S ORATIONS

(4) The Staff

Begins with a review of the language and readings from Caesar's $Gallio\ War$, followed by selected orations of Cicero. Prereq., 2 or 2 yrs. high school Latin.

4. VERGIL

(4) The Staff

Selections from the first six books of the *Aeneid*, with some study of classical mythology. Prereq., 3 or 3 yrs. high school Latin or permission.

27. ENGLISH WORDS FROM LATIN*

(2) Jolliffe

Vocabulary building through a knowledge of some of the Latin elements which combine to make more than half of the words in the English language. Special attention to the needs of those who wish to master the technical language of law, medicine, science, commerce, or other special fields in which there is a large Latin element.

101. FAMILIAR ESSAYS

(4) Hill

Cicero's De Amicitia, De Senectute, Scipio's Dream. Some review of essential elements of Latin and a comparative study of the literature on friendship during the first half of the semester. Prereq., 4, 4 yrs. high school Latin, or 3 yrs. and permission.

102. HORACE AND TERENCE

(4) Hill

A comedy by Terence and selections from Horace's *Odes and Epodes*. Prereq., 4 or 4 yrs. high school Latin or permission.

103. PLINY'S LETTERS

3) Hill Jolliffe

Selections which reveal the human side of Roman life and society from Nero to Trajan. Prereq., 102 or permission.

104. LIVY AND OVID

(3) Hill, Jolliffe

The lengendary history of early Rome and stories from Ovid. Prereq., 102 or permission.

112. WRITING LATIN PROSE

(1) Hill, Jolliffe

Exercises in writing Latin designed to give the student greater mastery of the language. Preferably to be done in conjunction with Lat. 102. Prereq., 101.

121. SALLUST

(3) Hill, Jolliffe

The Catiline and selections from the Jugurtha. Prereq., 2 yrs. high school Latin or permission.

123. NEPOS AND LIVY

(3) Hill

Selected Lives of Nepos and readings from Livy ranging in time

^{*}No knowledge of Latin required.

from the founding of the Republic to the end of the Punic Wars. Prereq., 4 yrs. high school Latin or permission.

125. CICERO, SELECTED WORKS

(2-3) Hill, Jolliffe

The reading of important orations of Cicero not commonly read in high school, and selections from his other works which are of particular interest to teachers of high school Latin. Prereq., 101 or permission.

165r. TEACHING OF LATIN

(2) Hill

(Same as Ed. 165r) Aims and methods of teaching Latin, the relation of Latin to English, determining the comparative merit of textbooks and important reference material. Some study of important principles of the language. Prereq., 103 or permission.

211. CICERO AND CATULLUS

(1-3) Hill, Jolliffe

Selected letters of Cicero and selections from the poetry of Catullus. Prereq., 103.

212. CAESAR AND PLAUTUS

(1-3) Jolliffe

Caesar's Civil War and one comedy by Plautus. Prereq., 103.

213. HORACE AND JUVENAL

3) Hill, Jolliffe

Satire as a literary type in the hands of its two greatest masters. Prereq., 103.

214. TACITUS AND MEDIEVAL LATIN SELECTIONS (1-3 as scheduled) Jolliffe Tacitus' Agricola and Germania, with selections from medieval Latin. Prereq., 103.

220. VERGIL-LATIN EPIC

(3) Hill

Lectures on the general literary content and technique of the *Aeneid*, with translations from the last six books. Prereq., 103.

221. SUETONIUS

(3) Hill

The life of Julius Caesar and of Augustus with some consideration of facts obtained from other sources. Prereq., 103.

222. THE LATIN DRAMATISTS

(1-3) Hill, Jolliffe

Selected comedies from Plautus and Terence and one of the tragedies of Seneca. Informal lectures on the different forms of drama among the Romans and their relation to the Greek. Prereq., 103.

224. PETRONIUS

(2) Jolliffe

The Cena Trimalchionis is read and studied both for the light it throws on social life in Rome and as an example of Latin prose of the Empire. Prereq., 104.

226. MARTIAL

(1) Jolliffe

A study of the epigrams of Martial as they portray with vivid personal touch almost every phase and station of Roman life. Prereq., 103.

227. ROMAN HISTORY IN THE CLASSICAL PERIOD*

l) Hill, Jolliffe

A brief survey of the outstanding events of Roman history during the period in which the most important works of Latin literature were produced. Prereq., 6 hrs., or 9 hrs. history and antiquities.

228. ROMAN RELIGION AND MYTHOLOGY*

(2) The Staff

Prereq., 8 hrs. classical languages or history and antiquities, or 12 hrs. English.

229. DEVELOPMENT OF ROMAN CULTURE*

(2) Hill

Beginning with the archaeological evidence of civilization in Italy and in the whole area of the Mediterranean at the time of the traditional founding of Rome, the course is designed to trace the various influences and stages in the growth of Roman culture. Prereq., 8 hrs., or 8 hrs. history and antiquities.

231. THE LIFE OF THE ROMANS*

(2) Hill

The social customs of the Romans: the family, the house, transportation, sources of income, social organization, slavery, public amusements, and related features of Roman life. Various phases are illustrated from the archaeological evidence. Prereq., 11 hrs., or 8 hrs. history and antiquities.

232. HISTORY OF LANGUAGE*

(2) Jolliffe

How language began, developed, and functions in society; the causes of change and difference; semantics and its application in translation, education, poetry, and propaganda; the history of writing; modern English and its Latin, Romance, and Germanic backgrounds. Prereq., 8 hrs. foreign language or 12 hrs. English.

233. ADVANCED LATIN SYNTAX

(1-3) Jolliffe

A study of the principles of Latin syntax with emphasis upon their application in translation. Prereq., 103.

235. LATIN POETRY OF THE EMPIRE

(3) Hill

Generous selections from the best of the post-Augustan poets. Designed to acquaint the student with the wealth of poetic literature in the period which followed the golden age. Prereq., 103.

239. READINGS IN LATIN LITERATURE

(1-10) as scheduled) Hill, Jolliffe

Lectures on and translations of selected Latin works not previously read by the student. Selections may be from a wide range of Latin literature, including such authors as Apuleius, Seneca (*Essays*), Lucretius, and the elegiac poets, in accordance with the interests and needs of the class. Prereq., 103 or equivalent.

240. SPECIAL WORK IN LATIN

(1-8) The Staff

Individual work under careful guidance. Prereg., 103.

311. OVID'S FASTI

(3) Hill

Selected books of the *Fasti* are read for content and for the light they throw on early Roman religion. Some study of elementary principles of text criticism. Prereq., 15 hrs.

312. SALLUST'S CATILINE AND JUGURTHA

(3) Hill

These are read in their entirety as a background to the political situation which ushered in the Empire. Prereq., 20 hrs.

^{*}No knowledge of Latin required.

Design 171

391. LATIN OF THE TRANSITION PERIOD (SEMINAR) Prereq., 20 hrs.

(3) Hill

395. THESIS

(4-8) The Staff

A thesis may be offered in Latin or in classical languages. Prereq., permission.

DESIGN

Professor Way

Associate Professors Willis, Work

3. ELEMENTARY DESIGN FOR TEACHERS

(2) Work

Problems involving elementary principles in design, color, and lettering. Planned for students who expect to major in elementary education. 1 lec. and 3 lab.

II. THEORY OF DESIGN

(2) The Staff

An analysis of fundamental principles of design through experiences in various media and processes. 2 lec. and 4 lab.

12. THEORY OF DESIGN

(2) The Staff

A study of color theories and harmony through creative experiences. 2 lec. and 4 lab. Prereq., 11.

91. DESIGN AND COMPOSITION

(2) Willis

Problems in design and composition with special emphasis on color. Planned for students who expect to major in home economics. 1 lec. and 3 lab.

102. APPLIED DESIGN

3) Willis

Principles applied to posters, decorative boxes, wall hangings, panels, and table decorations. 2 lec. and 4 lab. Prereq., 91.

113. LETTERING AND THE POSTER

(3) Work

Study of form, spacing, alphabet styles. Practical problems in posters produced in various media, including the silk screen process. Prereq., permission. Fee, \$6.

114. TEXTILE DESIGN

(3) Way

All-over patterns with emphasis on principles. Problems in weaving. 2 lec. and 4 lab. Prereq., 12 or 102.

123. JEWELRY

(2-6) Willis

Original designs executed in silver and copper. Not more than two credit hours may be carried in one semester. 1 lec. and 3 lab. Prereq., 12 or 102, and permission. Fee, \$1 per credit hour.

137-138. COSTUME DESIGN

(2) Way

Design in relation to dress. Designing for individual characters. Adaptations of historic styles to modern costume. 1 lec. and 3 lab. Prereq., 12 and 28 or with 28.

140. DESIGN APPLIED TO MATERIALS

(3) The Staff

Emphasis on the direct relation of design applied to both rigid and plastic materials. Problems in weaving, wood, metal, and cloth. 2 lec. and 4 lab. Prereq., 9 hrs.

147-148. PRINCIPLES OF THE SPACE ARTS IN ADVERTISING (2) World of design in advertising with fundamental problems in news.

Study of design in advertising, with fundamental problems in newspaper, magazine, and direct mail layouts. 1 lec. and 3 lab.

160c. PRACTICAL DESIGN WORKSHOP FOR ELEMENTARY TEACHERS

(1-3) Leonard

(Same as Ed. 160c) Problems in modeling, ceramics, bookbinding, lettering, painting, and other activities related to elementary school problems. Prereq., 3. Fee, \$1 per credit hour.

160h. TEACHING OF THE SPACE ARTS

(2) Way

(Same as Ed. 160h) Prereq., 115 and 117, or permission.

171-172. HOUSE DECORATION

(3) Way

A brief study of architectural details and historic styles of furniture as used in modern homes. Study of house plans, decorative treatments, and materials. 2 lec. and 4 lab. Prereq., 12 and permission.

201. WORKSHOP IN THE SPACE ARTS

(1-6) Mitchell, The Staff

Students are assigned to projects for practical experience. Not more than three credit hours may be carried in one semester. 3-18 lab. Prereq., 8 hrs. and permission.

207. ADVANCED DESIGN

(3) Willis

Composition for decorative panels in different media with special emphasis on design. 2 lec. and 4 lab. Prereq., 114, or 8 hrs. and permission.

213. ADVANCED HOUSE DECORATION

(3-12) Way

Floor plans and elevations. Perspective drawings rendered in color. Research is stressed and original adaptations are made from styles of important periods. 2 lec. and 4 lab. Prereq., 172.

217-218. ADVERTISING AND INDUSTRIAL STYLING

(3) Work

Magazine, newspaper, and direct mail layouts. Problems in industrial design. 2 lec. and 4 lab. Prereq., 10 hrs. including 113 or 147.

221. ADVANCED COSTUME DESIGN

(2-10) Way

Application of principles to magazine illustration of dress design. Study of the details of costume. Page layouts, trousseaux. Not more than two credit hours may be taken in one semester. 1 lec. and 3 lab. Prereq., 12 hrs. including 138.

225. ADVANCED JEWELRY

(2-6) Willi

A continuation of 123. Not more than two credit hours may be taken in one semester. 1 lec. and 3 lab. Prereq., 12 hrs. including 123. Fee, \$1 per credit hour.

249. ART SUPERVISION AND CURRICULA

(2) Way

Art objectives. Projects in teaching and supervision in various types of schools and suggestions for growth toward the ideal situation. Prereq., 160h.

281. RESEARCH IN DESIGN

(1-5) The Staff

3-15 lab. Prereq., 15 hrs. and permission.

391. SEMINAR IN DESIGN

(1-5) The Staff

Prereq., 18 hrs. and permission.

395. THESIS

(4-8) The Staff

Prereq., permission. Fee, \$1 per credit hour.

For allied courses see:

Art History, page 156.

Painting, page 243.

Sculpture, page 269.

DRAMATIC ART

Professor Seigfred

Assistant Professors Jukes, Andersch Instructors Lane, Tillson, Newell, Hahne

Visiting Actress Lenihan

Visiting Lecturer Reinbold

21. ELEMENTS OF STAGE SCENERY

(3) Jukes

A basic course in the technical considerations of producing a play; the underlying principles of scenic construction; the types and utilization of stage scenery. 1 lec. and 4 lab.

23. ELEMENTS OF STAGE LIGHTING

. . . .

The study and practice of stage-lighting units, control equipment, and color media, and its application to play production in the non-professional theatre. 1 lec. and 4 lab.

47. THEATRE LABORATORY

(1) Reinbold

Participation in the production process connected with the plays presented by the University Theatre and the University Playshop. Rehearsal, performance, and technical work coincident with theatrical production.

101-102. MOVEMENT AND PANTOMIME

(2) Lane, Phillips

The analysis of movement from the viewpoint of dance and drama. Body mechanics; dynamics of movement in space and time; experimental application of discovered techniques to social and dramatic situations.

103. CONTEMPORARY THEATRE

(3) Reinbold

Playwriting techniques; acting, directing, production, and business methods in the contemporary theatre. Prereq., 4 hrs.

105. PLAY PRODUCTION

(3) Lan-

A general course designed to familiarize the student with the various aspects of play production including choice of play, casting, direction, and techniques of production. Laboratory experience. Not open to majors.

107. COSTUMING THE PLAY

(2) Andersch

Consideration of the use of color, line, and texture in designing, constructing, and adapting costumes for the stage. 1 lec. and 4 lab. Prereq., P. A. A. 28 or with P. A. A. 28.

122. SCENE DESIGN AND PAINTING

(3) Jukes

A course in the various theories of designing settings and painting them. Attention is given to the effect of stage lighting on scenery and make-up. Opportunity for practical experience is given through participation in the University Theatre and University Playshop productions. 1 lec. and 4 lab. Prereq., 21, and P.A.A. 45 or with P.A.A. 45.

147. THEATRE LABORATORY

(1-7) Reinbold

Participation in the production process connected with the plays presented by the University Theatre and the University Playshop. Rehearsal, performance, and technical work connected with theatrical production. Not more than two hours may be scheduled by a student in one semester; a maximum of seven hours credit may be elected by a student. Prereq., permission.

162h. TEACHING OF HIGH SCHOOL DRAMATICS

(2) Andersch

(Same as Ed. 162h) Emphasis placed on the organization of curricular and co-curricular dramatic activities. A comprehensive analysis of the dramatic materials available to the secondary school. Methods of casting, staging, and production. Organization and function of the dramatic club. Prereq., 4 hrs., 12 hrs. English, and permission. Teaching experience may be accepted in lieu of course prerequisites.

.199. PRINCIPLES OF ACTING AND MAKE-UP

(3) Tillson, Hahne

Presentation and discussion of the most widely accepted acting techniques. Class assignment of individual roles and group rehearsal of scenes. Laboratory practice in the application of all types of theatrical make-up. 1 lec. and 4 lab. Prereq., 102 and Speech 34.

200. ADVANCED ACTING TECHNIQUE

· (3) Lane

Creation of roles in plays of different types, styles, and periods, stressing more difficult characterizations. Study of dialects. Laboratory experience in rehearsal and performance. 1 lec. and 4 lab. Prereq., 199 and permission.

206. ADVANCED STAGECRAFT

(3) Jukes, Newell

Theories and problems involved in scenic decor. The results of experimentation with paint and structure on the model set are applied to full-scale scenery. 1 lec. and 4 lab. Prereq., 12 hrs. including 21 and 122.

221, 222. DRAMATIC COMPOSITION

(3) Seigfred

Theory of playwriting. Practical experience in the writing and rewriting of plays. Scripts of sufficient merit are produced under the writer's supervision by the University Playshop. Emphasis is placed on the student's apperceptive background. Prereq., 6 hrs. and 12 hrs. English and/or journalism.

250-251. PLAY DIRECTION

(3) Lane

Development of procedure followed by the director in preparing plays for public performance. Analysis of the script. Methods of casting and rehearsal. Capable students direct one-act plays presented by the University Playshop. 1 lec. and 4 lab. Prereq., 12 hrs. including 103, 200, and permission. Graduate students may substitute practical experience in schools for course prerequisite.

253. MASTERS OF THE THEATRE

(3) Lane

Techniques for the production of historical plays. Preparation of director's manuscript and actual supervision of production. Open only to majors in dramatic art. Prereq., 251, F. A. 180, and permission.

381. RESEARCH IN THEATRE PRACTICE

(3-6) The Staff

Specific phases of the production process. Attention to classic and contemporary literary treatment. Directed experimentation in theatrical techniques. Prereq., 18 hrs., or 12 hrs. and examination.

393. SEMINAR IN PRODUCTION PROBLEMS

(2-3) The Staff

Each student investigates problems in his field of interest. Lectures and group discussions include pageantry, the musical drama, the puppet theatre, the community and church theatre, educational dramatics below the college level, and dramatic criticism. Prereq., 15 hrs.

395. THESIS

(4-8) The Staff

Prereq., permission.

Suggested courses:

Radio Broadcasting (See page 261)

F. A. 179-180—History of the Visual Theatre

P. W. 7-8-Modern Dance

P. W. 115-116-Advanced Modern Dance

ECONOMICS

Professors Gubitz, Beckert

Associate Professors Fenzel, Hellebrandt (chairman)

Assistant Professor Picard

Instructors Franzolino, Rickard, Haynes, Fuller

I. THE ECONOMIC DEVELOPMENT OF THE UNITED STATES

(3) Hellebrandt, Picard, Franzolino, Rickard

The historical growth of transportation, banking, tariff, manufacturing, labor unions, agriculture, and other economic institutions from colonial times to the present. The study of the economic factors in the development of the United States. Not open to upperclassmen except by special permission.

3. CONTEMPORARY ECONOMIC SOCIETY (3) Beckert, Rickard, Haynes

The organization, operation, and control of economic society with complementary problems. Not open to upperclassmen pursuing the Bachelor of Science in Commerce degree.

15. ECONOMIC GEOGRAPHY

(3) Fenzel

The important natural resources: plants, animals, minerals, and power; the typical manufacturing industries; the systems of transportation: land, water, and air; all studied in their relation to man in his quest for a living.

101-102. PRINCIPLES OF ECONOMICS

(3) Gubitz, Hellebrandt, Picard, Franzolino, Rickard, Fuller

The basic theory and economic analysis of prices, markets, production, wages, interest, rent, and profits. The second half of the course is concerned with the economic problems and economic institutions of society. Among the problems analyzed are labor unions, money and banking, taxation, public utilities, international trade, business cycles, and agriculture.

101-102. PRINCIPLES OF ECONOMICS

(5) Gubitz, Hellebrandt, Picard, Franzolino, Rickard, Fuller

Identical with 101-102 but designed for transfer students and others desiring to complete the entire course in one semester so that advanced work in economics and commerce may be pursued the following year.

205. TRANSPORTATION

(2-3) Hellebrandt

The social, political, and economic aspects of transportation. The economic characteristics of transportation rates and the machinery developed for their determination and adjustment are emphasized. Prereg., 102.

209. PUBLIC UTILITIES

(2-3) Hellebrandt

The economic basis of the public utility concept and its relation to business organization. The nature, scope, development, legal organization and regulation of public utilities. Prereq., 102.

210. TRANSPORTATION AND PUBLIC UTILITY PROBLEMS (2) Hellebrand

Coordinate transportation, motor vehicle regulation, consolidation, finance, holding companies, commission regulation, and other current problems as they affect the various transportation agencies. Practical problems of rate-making, service, finance, the holding companies, public ownership, public relations, and commission regulation as they affect transportation agencies and local utility companies. Prereq., 205 or 209.

211. INDUSTRIAL MANAGEMENT

(3) Gubitz, Hellebrandt

The principles of the organization and the management of industrial enterprises, the management movement, and the newer principles and practices in functional factory organization. Prereq., Ec. 102.

212. ADMINISTRATION OF PERSONNEL

(3) Gubitz, Franzolino

A comprehensive survey of the principles of the management of people in business organizations and institutions. Among the subjects treated are industrial government, employment management, accident and waste prevention, labor turnover, and similar topics. Prereq., 102.

215. PUBLIC FINANCE

(2-3) Picard

Economic analysis of government expenditures, government credit, and government debt. Recent trends in fiscal policy and modern suggestions for government reorganization to provide more efficient public services. Prereq., 102.

216. TAXATION

(2-3) Picard

Economic analysis of government revenue. Principles of taxation with references to the tax system—federal, state, and local. Current problems in taxation, including income taxes, property taxes, and consumption taxes. The economic effects of various types of taxes. Prereq., 102.

220. TRUST AND CORPORATION PROBLEMS

(3) Rickard

The problem of combinations, cartels, and trusts as they have developed in the United States and other countries. Prereq., 102.

221. THE ECONOMICS OF GOVERNMENT CONTROL

2-3) Rickard

Economic theory as applied to historic and current issues of public policy. Governmental planning and control of industry, resources, prices, banking, and business fluctuations. Prereq., 102.

227. CURRENT ECONOMIC PROBLEMS

(2-3) Gubitz, Hellebrandt, Picard

The economic theory underlying some of the most pertinent economic problems of the times. The material studied will include international economics, labor unions, monetary reform, monopoly control, suggestions for full employment, and fiscal problems of the several governments. Prereq., 102.

229. MODERN TRENDS IN ECONOMIC REFORM

(2-3) Picard

Historical development of the various types of suggested economic reforms. Growth and analysis of modified capitalism, communism, socialism, and fascism. The economic thought of Marx, Sismondi, G. B. Shaw, H. G. Wells, St. Simon, and others. Prereq., 102.

230. HISTORY OF ECONOMIC THOUGHT

(2-3) Hellebrandt

The historical evolution of the major economic doctrines: mercantilists and cameralists, physiocrats, Adam Smith and the classical school, the historical school, the Austrian school, Alfred Marshall, and the neoclassicists. Prereq., 102.

233. ECONOMIC THEORY

(2-3) Picard

A study of the concepts and tools for analysis of the behavior of business firms in their pricing, production, purchasing, and employment policies. The determination of prices of products and productive agents under conditions of competition, monopolistic competition, and monopoly. The current theories of value and distribution. Prereq., 102.

235. LABOR RELATIONS

(3) Gubitz, Franzolino

The general survey of the forces that give rise to modern labor problems. The purpose of the course is to give a basis for the developing of a general point of view, to make an analysis of the major problems involved, to indicate the trend of policy and organization, particularly labor organizations, and to offer constructive suggestions for the handling of administrative problems. Prereq., 102.

238. LABOR LEGISLATION

(2) Gubitz, Franzolino

A survey of the historical background of various labor problems indicating the nature and extent of each with a description of the legislative remedies that have developed and how they have been applied. Prereg., 102.

281. RESEARCH IN ECONOMICS

(2-8) The Staff

Prereg., 15 hrs. and permission.

302. MODERN ECONOMIC THOUGHT

(2-3) Gubitz, Hellebrandt, Picard

A general survey of contemporary economic thought. It includes a study of J. B. Clark, Thorstein Veblen, Alfred Marshall, J. A. Hobson, W. C. Mitchell, A. C. Pigou, Joan Robinson, Edward Chamberlin, Alvin Hansen, J. M. Keynes, and others. Prereg., 12 hrs., Ec. 102.

304. INSTITUTIONAL ECONOMICS

(2-3) Gubitz, Hellebrandt

Collective action in the control, liberation, and expansion of individual action. Consideration is given to the writings of economists from John Locke to the twentieth century and to court decisions. Prereq., 12 hrs., Ec. 102.

391. SEMINAR IN ECONOMICS

(2-10) The Staff

Prereg., 15 hrs. and permission.

395. THESIS

(4-8) The Staff

Prereq., permission.

EDUCATION

Professors R. L. Morton, Siast, Beechel, E. R. Collins Hansen, Benz, Class*, Shoemaker Associate Professors Dixon, Quick, Yauch Assistant Professors Dunham, Evans, Olson DeLand, Eisen, Nelson, Ward, Wilson, Palmer

ELEMENTARY EDUCATION

2. LITERATURE FOR CHILDREN (Summer Sessions Only)

(3) Quick

A study of traditional and modern literature for children. Special emphasis on experiences with children and books.

3. ORIENTATION IN CHILDHOOD EDUCATION

(3) Quick

This course is designed to help students in planning their work in education. It includes a comprehensive survey of preschool and elemen-

^{*}On leave of absence. †Dr. Sias will retire June 30, 1947.

tary education; opportunities to work with children at successive levels of child development; explorations of school and community resources with emphasis on the function of education in a democracy. Open to freshmen. 2 lec. and 2 lab.

101. ACTIVITIES AND PLAY MATERIALS FOR CHILDREN (2) Wilson

The sources and uses of materials used by the young child in the classroom. Play as an element in child development, equipment and play materials, development of organized games. Criteria for selecting and evaluating child activities. 2 lec. and 2 lab. Fee, \$2.

103. STUDIES IN CHILDHOOD EDUCATION

(3) Quick

This course provides an opportunity for a critical review of trends, practices, and methods in childhood education and an evaluation in terms of progressive theory. Prereq., 6 hrs. education or psychology.

110-111. STUDENT TEACHING LABORATORY

(4) Yauch, Quick

A laboratory for the solution of classroom problems encountered in student teaching. Development of such topics as the solution of individual and group learning problems, selection of instructional materials, planning the learning program, the nature of the curriculum, the social-educational development of elementary school pupils. 2 lec. and 2 lab. Prereq., with 101, 163b, and 169f. Fee, \$4.

120. PRINCIPLES, ORGANIZATION, AND MANAGEMENT IN ELEMENTARY SCHOOL (3-4) Yauch

The purpose, place, and structure of the public elementary school, its social and administrative organization, and principles and practice in school and classroom management. This course will develop the theory and practices of the conduct of elementary schools, and will include such topics as balancing the school program, teacher and pupil-planning, and classroom management. For members of the cadet-teacher program only.

121. MATERIALS AND METHODS OF INSTRUCTION IN THE ELEMENTARY SCHOOL (8) Yauch and Others

This course is designed to familiarize cadet teachers with the usual materials of instruction in the elementary grades and with the best

methods of employing them. Attention is given to reading, language, arithmetic, and social studies as they contribute to the educational experiences of the elementary school child. Prereq., 120, and with student teaching.

142. CONSERVATION PROBLEMS FOR ELEMENTARY TEACHERS

(3) Beechel, Dow, and Supervising Critics

(Same as Geog. 142) A laboratory course in the techniques used in the recognition and solutions of natural resources conservation problems on the elementary school level. The fundamental concepts of the major resources such as soil, water, forest, minerals and wild life and their relationships to human progress are emphasized. Teachers in training will cooperate with children and supervisors in the elementary school in the development and control of wise land use practices in an assigned area. A laboratory and field course. Fee, \$3.

160c. PRACTICAL DESIGN WORKSHOP FOR ELEMENTARY TEACHERS

(1-3) Leonard

(Same as P. A. A. 160c)

163b. TEACHING OF READING AND LANGUAGE (3) Yauch

A study of the techniques, problems, and knowledges involved in promoting language development, including reading, creative and conventional oral and written expression. Prereq., Eng. 1 or 3.

- 163g. TEACHING OF ARITHMETIC IN INTERMEDIATE GRADES (3) Morton Methods of presenting the subject matter of the arithmetic curriculum in grades 4, 5, and 6; results of experimental investigation; grade placement and the sequence of topics; trends in arithmetic textbooks.
- 163p. TEACHING OF ARITHMETIC IN PRIMARY GRADES (3) Morton Methods of teaching the subject matter of the arithmetic curriculum in grades 1, 2, and 3; results of experimental studies and of recent developments in educational psychology.

163s. TEACHING OF ARITHMETIC IN UPPER GRADES Organization and methods of teaching the subject matter of the arithmetic curriculum in grades 7 and 8; the number system; arithmetic

arithmetic curriculum in grades 7 and 8; the number system; arithmetic and life activities; arithmetic and a liberal education.

- 169f. TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL (2) Yauch A study of the social environment, cultural problems, human relationships in American life, and their implications for teaching.
- 171. OBSERVATION AND PARTICIPATION IN KINDERGARTEN-PRIMARY
 GRADES (Summer Sessions Only)
 (3) Sias and Supervising Critics
 Prereq., with 172.
- 172. STUDENT TEACHING IN KINDERGARTEN-PRIMARY GRADES
 (4-5) Sias and Supervising Critics
 Prereq., with 110. Fee, \$8-\$10.
- 174. ADVANCED STUDENT TEACHING IN KINDERGARTEN-PRIMARY GRADES
 (6) Sias and Supervising Critics
 Prereq., with 111, and senior rank. Fee, \$12.
- 175. OBSERVATION AND PARTICIPATION IN INTERMEDIATE GRADES
 (3) Sias and Supervising Critics
 Prereq., with 176, and cadets only.
- 176. STUDENT TEACHING IN INTERMEDIATE GRADES

 (4-5) Sias and Supervising Critics

 Prereq., with 110. Fee, \$8-\$10.
- 177. ADVANCED STUDENT TEACHING IN INTERMEDIATE GRADES

 (6) Sias and Supervising Critics
 Prereq., with 111, and senior rank. Fee, \$12.

211. THE CHILD AND THE CURRICULUM

(3) Beechel, Quick, Yauch

A study of the changing curriculum including the newer knowledge of child growth and development and the importance of social-centered experiences, the changing concepts of curriculum making, with the community an essential learning laboratory. Prereq., 110, 6 hrs. education and Psych. 3 or 5.

212. SENIOR CONFERENCE IN ELEMENTARY EDUCATION (2) The Staff

An integrating course designed to complete the elementary school teacher's professional preparation. Concepts developed throughout the undergraduate program will be examined in the light of current educational thought. Prereq., senior rank.

For other courses designed primarily for kindergarten and elementary teachers, see H. Ec. 55, 56; Ind. A. 115; Mus. 71, 72, 166d, 166e; P. W. 167p; and P. A. A. 3, 160c.

HISTORY AND PHILOSOPHY

250. THE HISTORY OF EDUCATION

(3) Shoemaker

Studies the agencies of education and the social forces which have conditioned them during ancient, medieval, and modern times. Prereq., 3 hrs. education and Psych. 5.

251. HISTORY OF EDUCATION IN THE UNITED STATES (3) S

Shows the European social, economic, and political influence on colonial life and education. The rise and development of public education in the United States is studied in considerable detail. Prereq., 3 hrs. education and Psych. 5.

252. COMPARATIVE EDUCATION

(3-6) Shoemaker

A comparative study of national school systems with special emphasis on Russia, Germany, England, France, Italy, and the United States. Prereq., 9 hrs. education including 3 hrs. history of education, and Psych. 5.

253. THE EVOLUTION OF EDUCATIONAL THOUGHT (3-5)

(3-5) Shoemaker

Deals solely with the educational writings of such theorists as Plato, Aristotle, Quintilian, Montaigne, Locke, Comenius, Rabelais, Rousseau, Pestalozzi, Froebel, Herbert, and Dewey. Prereq., 6 hrs. education and Psych. 5.

254. PHILOSOPHY OF EDUCATION

(3) Shoemakei

A comparison of pragmatism, idealism, and realism as philosophical bases for education. Each student is helped to formulate his philosophy of education. Prereq., 9 hrs. education.

256. PROGRESSIVE EDUCATION

(3) Yauch

A study of an educational program based on the philosophy of John Dewey, American democracy, and recent findings in the physical and social sciences. Prereq., 12 hrs. education, Psych. 3 or 5.

257. CURRENT EDUCATIONAL LITERATURE

(3) Beechel

A comprehensive study of current contributions to education. Prereg., 6 hrs. education and Psych. 5. Fee, \$3.

LIBRARY ADMINISTRATION FOR SCHOOLS

44. ORIENTATION IN USE OF LIBRARY

(1) Keating and Staf

Orientation course on how to use the school or college library. Required of students taking the course as a minor, and open to all other students.

- 143. SCHOOL LIBRARY CATALOGUING AND CLASSIFYING (2) Keating and Staff This course is intended to give basic operations of cataloguing and classifying. Prereq., 44.
- 144. SCHOOL LIBRARY EQUIPMENT AND MATERIALS (3) Keating and Staff
 This course is intended to give the techniques needed for housing
 and equipping the library and the acquisition of materials and their
 care. Prereq., 44.

145. SCHOOL LIBRARIAN'S READING GUIDANCE—ELEMENTARY SCHOOL

) Keating and Staff

The main emphasis in this course is to give the teacher-librarian actual acquaintance with books for children in the elementary schools and knowledge of sources useful in selecting them. Prereq., 44.

146. SCHOOL LIBRARIAN'S READING GUIDANCE—HIGH SCHOOL

(3) Keating and Staff

The main emphasis in this course is to give the teacher-librarian actual acquaintance with books for students in the secondary schools and knowledge of sources useful in selecting them. Prereg. 44.

147. SCHOOL LIBRARY, AN INFORMATION LABORATORY (3) Keating and Staff
The purpose is to give the school librarian familiarity with reference books needed in the school library and the ability to select and use informational books, magazines, and supplementary materials. Prereq.,
44.

148. SCHOOL LIBRARY LABORATORY PRACTICE (I) Keating and Staff
This course is intended to give the student actual practice under school library conditions.

RESEARCH AND SCIENTIFIC TECHNIQUES

131. EDUCATIONAL TESTS AND MEASUREMENTS

(2) Benz, Morton

Criteria for evaluating tests; the improvement of the essay examination; the construction, use, and scoring of new-type tests; elementary statistical procedures and their use in interpreting test results; the selection and use of standardized tests.

141. AUDIO-VISUAL EDUCATION

(2) Yauch

The relationship of audio-visual aids to the learning experience,

acquaintance with source materials in the field, laboratory and community participation in the use of projectors, slides, film strips, graphs, posters, etc.

281. EDUCATIONAL STATISTICS

3) Morton

The tabulation and graphical representation of frequency tables, measures of central tendency, percentiles and percentile curves, measures of variability, probability and the normal curve, and correlation. Practice in the use of statistical tables and calculating machines. Prereq., 6 hrs. education and Psych. 5.

282. ADVANCED EDUCATIONAL STATISTICS

(3) Morton

Nonlinear relations, partial correlation, multiple correlation, regression, transmutation of scores, reliability, and the interpretation of correlation coefficients. Practice in the use of logarithms, statistical tables, and calculating machines. Prereq., 281.

283. RESEARCH IN EDUCATIONAL STATISTICS

(2-6) Morton

An advanced course in statistics dealing with the derivation of formulae, the analysis of relationships, and the interpretations of results. Prereq., 282 and permission.

284. RESEARCH IN EDUCATION

(2-6) The Staff

Students are directed in the investigation of selected phases of educational theory and practice. Prereq., 9 hrs. education and Psych. 5.

288. TECHNIQUES OF EDUCATIONAL RESEARCH

(2) Be

Designed to acquaint students with research techniques and materials in education. Reports of completed research are analyzed and evaluated. Practice is given in selecting and planning a research problem, in selecting the method of procedure, and in collecting and interpreting data. Recommended for those planning to write theses in any of the fields of education. Prereq., 9 hrs. education and Psych, 5.

395. THESIS

(4-8) The Staff

Prereq., permission.

SECONDARY EDUCATION

130. PRINCIPLES OF SECONDARY EDUCATION (4) Benz, Shoemaker, E. R. Collins The purposes and problems of secondary education, curricular content and organization, guidance, evaluation, administration and organization as they affect the high school teacher. Prereq., second semester sophomore.

*160h. TEACHING OF THE SPACE ARTS

(2) Way

*160m. TEACHING OF INDUSTRIAL ARTS

3) Kinison

*161. TEACHING OF BOOKKEEPING, SHORTHAND, TYPEWRITING

(2-6) Beckert, Appel, Hardenburg

^{*}These titles each include one or more courses offered by cooperating members of the several subject-matter departments or divisions. A description of each course will be found under its subject-matter listing; e.g., the description of "160m. Teaching of Industrial Arts" will be found under this title in the Industrial Arts section where the cross reference will read, (Same as Ed. 160m).

- *162. TEACHING OF DRAMATICS, SPEECH
- (2-4) Staats, Andersch
- *164. TEACHING OF ENGLISH, JOURNALISM
- (2-6) Wray, Lasher
- *165. TEACHING OF FRENCH, GERMAN, LATIN, SPANISH

(2-9) Noss, Wilkinson, Hess, Hill, Whitehouse, Ondis

*166. TEACHING OF MUSIC

- (1-18) Staff Members
- *167. TEACHING OF PHYSICAL WELFARE
- (1-8) Staff Members
- *168a, b, g. TEACHING OF AGRICULTURE, BOTANY, GENERAL SCIENCE

(2-7) Wiggin, Boetticher

*168h. TEACHING OF HOME ECONOMICS

(2-3) Patterson

*168m. TEACHING OF MATHEMATICS

- (2-3) Starcher
- *168s, p, z. TEACHING OF CHEMISTRY, PHYSICS, ZOOLOGY

(2-8) Staff Member, Edwards, Stehr

*169c, h, s. TEACHING OF CONSERVATION, HISTORY AND CIVICS, SOCIAL SCIENCE (2-7) Dow, E. B. Smith, Jeddeloh

228. PRINCIPLES OF TEACHING

(3) Staff Member

Basic principles and processes in learning and teaching, with emphasis on the nature and extent of the teacher's responsibility. Analysis of chief proposals for improving classroom procedure, and means of measuring the effectiveness of teaching. Prereq., with 180 or 182.

180. OBSERVATION AND PARTICIPATION IN HIGH SCHOOL, ACADEMIC SUBJECTS (3) Sias

Prereq., junior or senior rank; Psych. 5 and Ed. 130; and, if possible, methods.

- 181. STUDENT TEACHING IN HIGH SCHOOL, ACADEMIC SUBJECTS (4) Sias Prereg., 180 or with 180, and senior rank. Fee, \$8.
- 182. OBSERVATION AND PARTICIPATION IN SPECIAL SUBJECTS

(3) Sias and Departmental Supervisors

Majors in art, music, and physical welfare divide the observing time between the elementary and high schools. Prereq., junior or senior rank; Psych. 5 and Ed. 130; and, if possible, methods.

- 183. STUDENT TEACHING IN SPECIAL SUBJECTS: Art, Music, and Physical Welfare in the Elementary School (2) Sias and Departmental Supervisors Prereq., 182 or with 182, and senior rank. Fee, \$2 for each credit hour.
- * 184. STUDENT TEACHING IN SPECIAL SUBJECTS: Art, Music, and
 Physical Welfare in the High School (2) Sias and Departmental Supervisors
 Prereq., 182 or with 182, and senior rank. Fee, \$2 for each credit
 hour.

185. STUDENT TEACHING IN SPECIAL SUBJECTS: Commerce, Home Economics, and Industrial Arts in High School (4) Sias and Departmental Supervisors Prereq., 182 or with 182, and senior rank. Fee, \$2 for each credit hour.

270. SENIOR CONFERENCE IN SECONDARY EDUCATION (3) The Staff

An integrating seminar to give professional focus to the total undergraduate program. The professional problems of the secondary teacher, employment and promotion, extra-class responsibilities, current educational issues, and other topics. Prereq., senior rank.

SCHOOL ADMINISTRATION AND SUPERVISION

210. ADMINISTRATION OF THE ELEMENTARY SCHOOL (3) Yauch

A study of the role of the teacher in democratic administration. The course is designed for both teachers and administrators. Practical problems are used as a basis of study. Prereq., 3 hrs. education and Psych. 5, experience in practical or student teaching.

230. HIGH SCHOOL ADMINISTRATION (3) Morton

The school plant, the program of studies, the program for health, vocational education, guidance, extracurricular activities, provisions for individual differences, the selection, assignment and payment of teachers, and the school schedule in modern junior and senior high schools. Prereq., 3 hrs. education and Psych. 5.

232. THE HIGH SCHOOL CURRICULUM

(2-3) Benz

The high school program of studies, the contributions of various subjects, integration, theories of curriculum construction, curriculum research, and desirable steps in the reorganization of the high school curriculum. Prereq., 6 hrs. education including 130.

240. SCHOOL ADMINISTRATION

(3) Dixon, Morton

A consideration of administrative personnel and of administrative problems pertaining to the school plant, business affairs, pupils, teachers, and instructional materials. Prereq., 3 hrs. education and Psych. 5.

241. SCHOOL FINANCE

(3) Sias

The place of school finance in the field of public finance, the sources of data, the sources of revenues, expenditures, economies, equalization, control of funds, and indebtedness. Prereq., 6 hrs. education including 3 hrs. of school administration, and Psych. 5.

244. PROBLEMS IN SCHOOL ADMINISTRATION

(3) Dixon

A course treating intensively special problems in school administration. The problems are determined by the interests of the students. Prereq., 9 hrs. education including 230 or 240.

248. GUIDANCE

(2) Sias

A study of the meaning and implementation of guidance in elementary, secondary, and higher education. Prereq., 6 hrs. education and Psych. 5.

272. LABORATORY SCHOOL PROBLEMS

(2) Beechel

For critic teachers, demonstration teachers, directors of student teaching in teacher-training institutions, and for those desiring to prepare for such positions. Seniors, graduate students, and permission. Prereq., 6 hrs. education and Psych. 5.

273. SUPERVISION OF STUDENT TEACHING

(4-6) Beechel, Sias, and Supervising Critics

Provides the novice supervising critic with experience in guiding the work of students who are doing student teaching. The regular supervising critic is directly in charge. Graduate students who have had successful teaching experience are admitted by permission. Prereq., 211 or 232, 255 or 256, and with 272.

SPECIAL EDUCATION

122. DIAGNOSIS AND REMEDIAL INSTRUCTION IN ELEMENTARY SUBJECTS

(2) DeLand

A laboratory course in methods of diagnosis and remedial treatment in fundamental school subjects for problem cases. Students are given opportunity to observe and work with problem children. Prereq., 3 hrs. education and Psych. 5.

123. CURRICULUM FOR SPECIAL CLASSES

(3) DeLand

Types of curricula for special education, units of work, materials, and subject matter suited to the mental ability and level, and methods of presentation and handling such units. Prereq., 3 hrs. education and Psych. 5.

178. STUDENT TEACHING IN SPECIAL EDUCATION Fee, \$8-\$10.

(4-5) Sias, DeLand

221. ORGANIZATION OF SPECIAL CLASSES

(2) DeLand

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Need of special education; history of the various classes for sightsaving, crippled, hard of hearing, mentally retarded, and defective in speech; selection and classification of children; cooperation with other departments; case studies and record taking; and direction and aftercare of special class children. Prereq., 3 hrs. education and Psych. 5.

225. PROBLEMS IN SPECIAL EDUCATION—THE SLOW LEARNER (2-6) DeLand

Students are directed in the investigation of selected phases of special education including theory and practice. Prereq., 3 hrs. education and Psych. 5.

ENGINEERING

Professors Green, Wilsey, Gaylord Associate Professors McClure, Clark, Thomas Assistant Professor Lausche Instructors Nellis, Selleck, Wickham Acting Instructor Matt

ENGINEERING DRAWING

(Mr. Thomas, chairman)

1-2. ENGINEERING DRAWING

(2) Thomas, Nellis, Wickham Freehand lettering, use of instruments, geometric constructions, orthographic projection, auxiliary and sectional views, dimensioning. Isometric, oblique, detail and assembly drawings. Intersections, developments, tracings and blueprints. Students who enter with two or more units of mechanical drawing may be excused by examination from part

3. THE SLIDE RULE

Prereg., Math. 5.

or all of the course. 6 lab.

(I) Thomas

101. DESCRIPTIVE GEOMETRY

(3) Thomas, Nellis

Problems relating to points, lines, planes, solids, and their projections, space visualization, curved surfaces, intersection of planes and solids, model making, practical applications. Daily exercise sheets. 1 lec. and 4 lab. Prereg., 1.

102. PERSPECTIVE DRAWING

(1) Clark

Pictorial representation of objects, including shadows on objects and planes. Parallel and oblique perspective. 3 lab. Prereg., 2.

CIVIL ENGINEERING

(Mr. Gaylord, chairman)

PLANE SURVEYING

(3) Clark

Basic theory underlying field measurements for engineering work; emphasis on correct procedure, proper note form, and computations. The theory is supplemented by field work in which the student gains proficiency in the use of surveying instruments. 2 lec. and 3 lab. Prereq., Math. 5. Fee, \$3.

110. TOPOGRAPHIC SURVEYING

(2) Clark

Application of the principles of surveying to map making, study of horizontal and vertical control, triangulation, stadia traversing, note taking and reduction, and map making. 6 lab. Prereq., 10. Fee, \$2.

III. ROUTE SURVEYING

(2) Clark

Application of the principles of route engineering in the field. A center line for one type of transportation route is laid out and profile and cross-sections taken. Computation of areas, cut and fill, cost estimate. 6 lab. Prereg., with 151. Fee, \$2.

121. APPLIED MECHANICS

(3) Wilsey

Algebraic and graphic solution of equilibrium of forces, application to jointed frames, centroids and moments of inertia, friction. Prereq., Math. 118 or with Math. 118.

122. APPLIED MECHANICS

(2) Wilsey

A continuation of 121, treating the general subjects of kinematics and dynamics. Prereq., 121.

123. ENGINEERING MATERIALS

(2) Wilsey

Properties and uses of engineering materials.

124. STRENGTH OF MATERIALS

(3) Wilsey

Elementary stresses and strains, torsion, flexure including elastic curve equations, columns, combined stresses, stresses due to impact. Prereq., 121.

125. ENGINEERING PROBLEMS

(3) Gaylord

A study of mathematical methods in the solution of typical problems in engineering. Prereq., Math. 118.

126. TESTING LABORATORY

(1) Wilsey

A series of experiments on the tensile, compressive, and shearing strengths of the principal materials of engineering. 2 lab. Prereq., with 124. Fee, \$1.

129. SOIL MECHANICS

(3) Gaylord

Theories of earth pressure and bearing capacities, with application to the design of earth structures. Prereq., 121.

130. STRUCTURAL ANALYSIS

(4) Gaylord

Application of the laws of static equilibrium to the analysis of stresses in component parts of engineering structures. 3 lec. and 2 lab. Prereq., 121.

131. STRUCTURAL DESIGN

(4) Gaylord

A study of the design of structural members and connections in steel, aluminum, concrete and timber. 3 lec. and 2 lab. Prereq., 124, 130.

132. CIVIL ENGINEERING STRUCTURES

(4) Gaylord

Design of bridges, buildings, retaining walls, foundations, and miscellaneous civil engineering structures. 3 lec. and 2 lab. Prereq., 131.

133. AIRCRAFT STRUCTURES

(4) Gaylord

Design of fuselage surfaces, engine mount, landing gear and other aircraft assemblies. 3 lec. and 2 lab. Prereq., 131.

141. FLUID MECHANICS

(3) Clark

Fundamental principles of the mechanics of fluids and their application to engineering. Fluid pressure, flow in orifices, weirs, pipes and open channels; elementary theory of pumps and turbines. Prereq., 122.

142. SANITARY ENGINEERING

(4) Clark

Sources, treatment, and delivery of pure water to consumers; col-.

lection, treatment, and disposal of water wastes. Theory of design, construction, and estimation of the various types of water works and sewage disposal plants. Prereq., 141.

151. ROUTE ENGINEERING

(3) Clark

Theory of simple and compound curves, spiral easements, vertical curves, earthwork quantities, construction methods and tracks as applied to transportation routes. Prereq., 10.

152. HIGHWAY ENGINEERING

(2) Clark

Materials, drainage, alinement, capacity, and finance as used in construction, maintenance, and operation of the modern highway. Prereq., 151.

153. AIRPORT ENGINEERING

(3) Clark

Airport sites and surveys, drainage, soil stabilization and pavements, lighting, buildings. Prereq., 10.

177. ENGINEERING ECONOMY

(3) Gaylord

Economy studies for proposed new enterprises, replacement of existing machines or structures, break-even and minimum cost points, planning for growth, and economy studies for public works.

202. WATER POWER ENGINEERING

(3) Staff Member

Theory, investigation, and development of water power. Prereq., 141.

205. AERODYNAMICS

(3) Wilsey

Aerodynamic characteristics of airfoils and factors affecting stability and control. Performance calculations. Prereq., 122.

211. PHOTOGRAMMETRY

(3) Clark

An introduction into the field of photogrammetry as applied to civil engineering. Methods and equipment used in taking aerial photographs, practice in the use of photogrammetric equipment and study of specialized equipment used by private aerial survey organizations and the governmental agencies such as the U. S. Geological Survey, the U. S. Engineers, etc. Accurate planimetric and topographic maps are made by aerial photographs using photogrammetric equipment. 2 lec. and 2 lab. Prereq., 111. Fee, \$3.

213. ADVANCED SURVEYING PROBLEMS

(2) Clark

Principles and practices in calculations for azimuth, latitude, and longitude by means of observations on Polaris and the sun with the surveyor's transit. Miscellaneous problems in land surveying and contour lines. Extended use of the plane table. 6 lab. Prereq., 111. Fee, \$2.

224. ADVANCED STRENGTH OF MATERIALS

Gaylord

Curved bars; stresses in flat plates; buckling of bars, plates, and shells; theories of strength. Prereq., 124.

230. STRUCTURAL ANALYSIS

(4) Gaylord

Theory of analysis of structures for which the conditions of static equilibrium are insufficient to obtain a solution. 3 lec. and 2 lab. Prereq., 124, 130.

ELECTRICAL ENGINEERING (Mr. Green, chairman)

101-102. FUNDAMENTALS OF RADIO

(3) Green

Preliminary study of electrical circuits, resonance and tuning applications, the vacuum tube, amplifier circuits, the complete receiver, radio transmitters, antennae and transmission lines. Laboratory work parallels the theory and includes such experiments as measurement of coils and condensers, use of frequency meters, assembling and aligning of receivers, tuning and operation of transmitters, and elementary measurement of radio field intensity. 2 lec. and 2 lab. Prereq., Math. 5. Fee, \$3.

105. RADIO BROADCASTING MECHANICS

(2) Green

A brief study of the apparatus used in radio broadcasting, including microphones, amplifiers, studio acoustics, control room, transmission lines, radio transmitter, and antenna. Not open to electrical engineers. 1 lec. and 2 lab. Fee, \$2.

129-130. CIRCUITS AND MACHINERY

(3) Selleck

The theory and operation of direct and alternating current machines and operations. For nonelectrical students. 2 lec. and 2 lab. Prereq., Math. 118 and Phys. 113, 114. Fee, \$3.

133. ILLUMINATING ENGINEERING

(2) Staff Member

Principles of light and radiation; various light sources, their characteristics and efficiencies; principles and practice of photometry; design of illumination for various types of homes and industries. Laboratory gives practice in illumination measurements. 1 lec. and 2 lab. Prereq., Math. 118 and Phys. 114. Fee, \$2.

143-144. ELECTRICAL ENGINEERING

(4) McClure

Direct current electrical and magnetic circuit analysis, D. C. machine characteristics and operation. A. C. circuits including complex circuit analysis and wave analysis. Prereq., Math. 118 and Phys. 114.

145-146. DYNAMO AND MEASUREMENTS LABORATORY

(3) McClure

Electric and magnetic measurements and the characteristics of D. C. machinery. 6 lab. Prereq., with 143-144. Fee, \$3.

149-150. ELECTRICAL MEASUREMENTS THEORY

(2) McClure

Fundamental theory of the potentiometer, galvanometer, magnetic oscillograph, permeameter, methods of calibrating ammeters, voltmeters, wattmeters, watt-hour meters, both D. C. and A. C. instruments. Methods of measuring resistance, inductance, capacitance; a study of transients and wave analysis, resonance phenomena. Prereq., with 143-144.

203-204. COMMUNICATION ENGINEERING AND ADVANCED CIRCUIT ANALYSIS (4)

(4) Green

A study of the fundamentals of communication engineering at radio and telephone frequencies. Network theorems, resonance, transmission lines, filters, and coupled circuits. Impedance matching, vacuum tubes, amplifiers, modulators, radiation and applications to radio and telephone apparatus. Laboratory follows theory closely. 3 lec. and 2 lab. Prereq., 144 or 130. Fee, \$4.

205. SCHOOL ACOUSTICS

(2) Green

A course suitable for music majors, teachers, school administrators, and architects. It treats sound generators, fundamental and harmonic frequencies of strings, pipes, and plates. The principles of operation of amplifiers, microphones, public address systems, sound movies, sound recording and reproducing, and the acoustics of auditoriums and broadcasting studios. Prereq., 12 hrs. physics, or music (including 104), or dramatic art, or education.

207. ELECTRICAL TRANSIENTS AND RELAYS

(3) Staff Member

A study of transient currents and voltages in both direct and alternating current circuits followed by applications in the operation of different types of relay control circuits. Prereq., 144.

209, 210. ULTRA HIGH FREQUENCY TECHNIQUES

(3) Green

Application of electronic and communication principles to ultra high frequency circuits, including vector analysis of electric principles, trigger and pulse circuits, ultra high frequency oscillators, transmission lines, electro magnetic waves, wave guides, and radiation. Prereq., 144 or 130.

211, 212. ADVANCED RADIO LABORATORY

(1-4) Green

Special problems of current interest in the field of radio engineering. 2-8 lab. Prereq., 101 or 203. Fee, \$1 for each credit hour.

225. ACOUSTICS

(3) Green

Principles of sound generation and propagation in free space and in enclosures, methods of sound measurement; characteristics of speakers, microphones, and receivers; design of horns; acoustics of auditoriums, theaters, and broadcasting studios; public address systems. Laboratory includes measurements with cathode ray oscillograph, sound intensity meters, standard oscillators, and acoustic bridges. 2 lec. and 2 lab. Prereq., Math. 118 and Phys. 113, 114. Fee, \$3.

235. ELECTRICAL TRANSMISSION OF POWER

(3) Selleck

Economic and electrical principles of transmission of electrical power, line equations and calculations, hyperbolic solution of long lines, insulation and protection against transients, mechanical principles and practical line construction. Prereq., 144 or 130.

243-244. ELECTRICAL ENGINEERING

(4) Staff Member

Characteristics and performance of A. C. machines including static transformers, synchronous generators, synchronous and asynchronous motors, advanced circuit analysis. Prereq., 144 and 146.

245-246. ELECTRICAL ENGINEERING LABORATORY

(2) Staff Member

A. C. circuit measurements, transformer grouping and testing, measurement and predetermination of characteristics of A. C. machinery. 4 lab. Prereq., with 243-244. Fee, \$2.

248. ELECTRICAL DESIGN

(3) Sellect

Fundamental electric machine design relations. After a preliminary study, the student designs a direct current generator, a transformer, and an induction motor and predetermines the performance. Prereq., 243.

271, 272. ENGINEERING ELECTRONICS

(3) Green

A comprehensive theoretical treatment of the fundamentals of electronics and of the general properties of electronic tubes with application to engineering. Prereq., Math. 118 and Phys. 114.

291-292. STUDIES IN ELECTRICAL ENGINEERING

Staff Member

Discussions of recent developments in electrical engineering and allied fields, abstracts of current articles. Problems in design. Prereq., 15 hrs.

305-306. PROBLEMS IN ADVANCED A.C. MACHINERY

3) McCli

Problems taken up deal with transient conditions in alternators, motors, and transformers. Development of theory of symmetrical components and applications to unbalanced loads on alternators and transmission systems. 2 lec. and 2 lab. Prereq., 244 and 246. Fee, \$3.

310. ELECTRICAL STATION DESIGN

(3) Staff Member

The application of economic principles to the problems of electric generating station design, selection of apparatus, balancing initial and subsequent costs, interrelation of the mechanical and electrical elements of design. Power plant visitation and reports. Prereq., 229, 230, and 244.

381. RESEARCH IN ELECTRICAL ENGINEERING

(1-6) The Staff

A course for graduate students and the occasional undergraduate student who desires to do some original work in experimental engineering. Prereq., 144, Math. 118, and Phys. 114.

391. ADVANCED SEMINAR IN ELECTRICAL ENGINEERING Prereq., 15 hrs.

(1-2) The Staff

395. THESIS

(6) The Staff

Prereq., permission.

MECHANICAL ENGINEERING

(Mr. Lausche, acting chairman)

101-102. MACHINE DESIGN

(2) Staff Member

The relative motions of machine parts including linkages, cams, gears, and beltings. The use of various engineering materials. 4 lab. Prereq., E. D. 101, C. E. 121.

103-104. MACHINE DESIGN

(3) Staff Member

Application of the principles of mechanics to the design of machine elements, with applications in the design of complete machines. 6 lab. Prereq., 102.

105. ENGINEERING THERMODYNAMICS

(3) Lausche

Energy equations, entropy, properties and thermodynamic processes of gases, compressed air engines, the Otto and Diesel cycles and engines, the properties of steam engine and vapor cycles, steam engines and turbines, principles of refrigeration. Prereq., Math. 118 and Phys. 113, 114.

106. HEAT POWER ENGINEERING

(3) Lausche

Solid, liquid, and gaseous fuels, principles of combustion, stationary boilers, grates, stokers, furnaces, coal pulverizers, economizers, preheaters, superheaters, stacks, forced and induced draft, boiler feed pumps, steam engines and turbines, condensers, gas and oil engines. Prereq., 105 or permission, and Math. 118.

108. HEAT POWER LABORATORY

(2) Lausche

Calibration of testing instruments and the proximate analysis of coal. Tests on the steam engine, turbine, boilers, and feed pumps at the heating plant. 4 lab. Prereq., with 106. Fee, \$1.

109. AIRCRAFT ENGINES

(3) Staff Member

Gas laws, performance and construction of aviation engines and propellers. 2 lec. and 2 lab. Prereq., Math. 118. Fee, \$3.

201. REFRIGERATION AND INTERNAL COMBUSTION ENGINES

(4) Staff Member

Theory and design of refrigeration equipment and of gas, gasoline, and fuel oil engines. 3 lec. and 2 lab. Prereq., 105.

203. HEATING, VENTILATING, AND AIR CONDITIONING (4) Staff Member Principles and theory of modern systems of heating, ventilating and air conditioning of buildings. 3 lec. and 2 lab. Prereq., 105.

Additional Course:

Mgt. 221-Time and Motion Study

ENGINEERING DRAWING—See Engineering

ENGLISH

Professors Mackinnon, Wray, Foster,
Heidler (chairman), Caskey*, Peckham
Associate Professors McQuiston, Lash, Kendall
(director of Freshman English), Harrison
Assistant Professors Kirchner, Davidson
Acting Instructors Pickard, Shipman, Knecht,
Thein, Hand, Knutson, O'Neill, Jefferson,
Wells, LaFollette, Martino, DeMell
Charles Allen Smart, Writer in Residence

The major requirement in English for the A. B. degree includes: Eng. 3-4, 101, 102 (12); American literature (3); and (11) from three of the following periods: Early and Middle English (2-3), sixteenth and seventeenth centuries (3-6), eighteenth century (2-4), nineteenth and twentieth centuries (3-6), and electives.

^{*}On leave of absence.

1-2. ENGLISH COMPOSITION

(3) The Staff

Eng. 1 places emphasis upon the grammatical elements of English composition. It is designed for students whose grades in proficiency tests indicate a need for additional drill in spelling, punctuation, and sentence structure. Eng. 2 is devoted to a thorough study of the structure of expository composition with special attention to oral English.

BULLETIN: The following change was approved too late to be indicated at other points in the catalog. Beginning with the 1947 summer session Eng. 2 will be eliminated. Students completing Eng. 1 will pass on to Eng. 3 and 4. No credit will hereafter be given for Eng. 1.

3-4. ENGLISH COMPOSITION

(3) The Staff

A course in the fundamentals of composition, the structure of the paragraph, and the writing of exposition. Students who make unusually high grades in the proficiency tests are excused from Eng. 3 and allowed to enter Eng. 4. Eng. 4 places emphasis on the study of models of argumentation, description, and narration and gives special attention to oral English.

101, 102. SOPHOMORE ENGLISH LITERATURE

(3) The Staff

The course is devoted to a study of the works of eight or ten of the chief English authors from the beginnings of English literature to the middle of the eighteenth century. Eng. 102 begins with the middle of the eighteenth century and continues the study to the present. Prereq., 2 or 4.

III. THE CHIEF AMERICAN WRITERS

(3) The Staff

A study of representative material, prose and poetry, selected from Franklin, Freneau, Irving, Cooper, Bryant, Emerson, Thoreau, Hawthorne, and Whittier. Prereq., 2 or 4.

112. THE CHIEF AMERICAN WRITERS

The Staff

A continuation of Eng. 111. Emphasis is placed upon selected prose and poetry from Poe, Holmes, Longfellow, Lowell, Whitman, Mark Twain, Henry Adams, Lanier, and William James. Prereq., 2 or 4.

114. ENGINEERING ENGLISH

(2) The Staff

An application of the principles of English to the technical exposition of engineering processes, problems, reports, abstracts; practice in writing business letters and letters of application. Prereq., 2 or 4.

120. MYTHOLOGY IN ENGLISH AND AMERICAN LITERATURE (2) Lash

The study by means of lectures and student reports of the allusions to Classical, Teutonic, and Scandinavian mythology found in English and American literature. Special attention will be given to allusions in Chaucer, Spenser, Milton, Gray, Shelley, Keats, Swinburne, Morris, the Concord group, and other literary figures. Prereq., 2 or 4.

135. THE BIBLE AS LITERATURE

(2) Foster

A study of the early narratives and prophecies of the Old Testament as masterpieces not only of world literature but of English literature. Prereq., 2 or 4.

136. THE BIBLE AS LITERATURE

(2) Foster

The King James version of the later prophetic and poetic books of the Old Testament, of the proverbs and essays, and of the sayings and parables of Jesus are read as living literature. Prereq., 2 or 4.

141. EUROPEAN DRAMA

(2) Peckham

Readings in English of typical plays by Sophocles, Plautus, Marlowe, Jonson, Moliere, Farquhar, Goldsmith, Sheridan, and Ibsen. Prereq., 2 or 4.

150. THE SHORT STORY

(2) McQuiston

A historical and critical study of the short story. Lectures and extensive reading in short story classics. Prereq., 2 or 4.

151. SHAKESPEARE

(3) Kendall

Shakespeare's principal plays. Reading and interpretation of the plays, lectures on Shakespeare's life and times, study of the Shakespearean stage and dramatic technique. Prereq., 2 or 4. Not for English majors.

164a. TEACHING OF ENGLISH IN THE SENIOR HIGH SCHOOL (2) Wray (Same as Ed. 164a) A study of the content and presentation of poetry, drama, novel, and short story. Prereq., 2 or 4 and junior or senior rank.

164b. TEACHING OF ENGLISH IN THE SENIOR HIGH SCHOOL (2) Wray (Same as Ed. 164b) A study of the content and presentation of grammar and composition. Prereq., 2 or 4 and junior or senior rank.

171. SOPHOMORE EXPOSITION

(3) Heidler

A course designed to offer practical experience in the writing of essays and reviews. Frequent writing by the student is supplemented by the study of meritorious examples from experienced writers. Prereq., 2 or 4.

175. CREATIVE WRITING

(2-4) Mackinnon, Smart

The work is adapted to the individual, and instruction is largely by conference. Prereq., 2 or 4 and junior or senior rank.

201. SHAKESPEARE

(3) McQuistor

Comedies and histories. Shakespeare's evolution and development as a dramatist, especially as a writer of comedies and historical dramas. Consideration of the dramatic and literary values of the plays and of their place in the whole body of Shakespeare's work. Prereq., 12 hrs.

202. SHAKESPEARE

(3) McQuiston

An advanced course. Intensive study and analysis of the great tragedies and rapid reading of some of the less well-known plays and the sonnets. Introduction to Shakespearean scholarship and criticism. Prereq., 12 hrs.

203. SIXTEENTH CENTURY LITERATURE

31 Wra

A study of the chief poets and prose writers. Prereq., 12 hrs.

204. ELIZABETHAN DRAMA, 1550-1642

(2) The Staff

A study of the English drama from 1550 to 1642, thus including the predecessors, the contemporaries, and the immediate followers of Shakespeare. Prereq., 12 hrs.; or 9 hrs., including 101, and 3 hrs. dramatic art.

205. SEVENTEENTH CENTURY LITERATURE

(2) Davidson

(Exclusive of Milton and the drama) A study of the more significant writers of prose and poetry together with the main cultural and historical currents of the period. Prereq., 12 hrs.

207. MILTON

(2) Foster

A detailed study of Milton's prose and poetry with reference to his times. Prereq., $12\ hrs.$

213. ENGLISH PROSE FICTION

(3) Mackinnon

A study of the development of the English novel through different periods. Prereq., 12 hrs.

214. AMERICAN PROSE FICTION

(3) Heidler

The development of the American novel from the colonial period to the present, with major emphasis upon late eighteenth century and nineteenth century productions. Prereq., 12 hrs.

215, 216. EIGHTEENTH CENTURY LITERATURE

(2) The Staff

Eng. 215 presents the prose and poetry of the age of Pope; Eng. 216, from Johnson to the close of the century. Prereq., 12 hrs.

217. DRAMA OF THE RESTORATION AND EIGHTEENTH CENTURY

2) Harrison

Readings from the chief dramatists of the Restoration and the eighteenth century. Prereq., 12 hrs.; or 9 hrs., including 101, and 3 hrs. dramatic art.

218. EIGHTEENTH CENTURY ROMANTICISM

2) Heidle

The course traces the beginnings of the movement with the Spenserians, Miltonic School, Chatterton, Ossian, the Gothic Romance, and others. Prereq., 12 hrs.

221. WORDSWORTH AND COLERIDGE

(2) McQuiston

A study of the principal poems of both poets and a less intensive survey of the rest of their work. Consideration of the poetical and philosophical theories of the two poets. Prereq., 12 hrs.

224. CONTINENTAL NOVEL

(2) Lash

Reading of European novels of the nineteenth century, chiefly, with emphasis on the Russian, French, German, and Scandinavian. Prereq., 12 hrs.

225. RECENT BRITISH AND AMERICAN POETRY

(3) Foster

A careful study of ten or twelve authors who have made distinctive contributions to the poetry of England and America. Prereq., 12 hrs.

226. AMERICAN LITERATURE

(3) Foster

A detailed study of two or three authors from Whitman to Frost with reference to their social and cultural backgrounds. Prereg., 12 hrs.

230. ENGLISH PROSE OF THE NINETEENTH CENTURY

3) Wray

A study of the essayists and major prose writers of the Romantic and Victorian periods. Prereq., 12 hrs.

231. LATER AMERICAN LIFE AND LITERATURE

(2) McQuiston

A study of the more important currents in American life and thought which have influenced the national literature since the Civil War. Prereq., 12 hrs.

234. MODERN CONTINENTAL DRAMA

(2) Peckham

A study of types and tendencies in European continental drama since Ibsen. A reading and discussion of modern and contemporary plays. Among the dramatists considered are Strindberg, Brieux, Hauptmann, Maeterlinck, Rostand, Molnar, Chekov, Andreyev, Capek, and Vildrac. Prereq., 12 hrs.; or 9 hrs., including 101, and 3 hrs. dramatic art.

236. MODERN DRAMA

(2) Peckham

This course alternates with Eng. 234. A study of types and tendencies in British, Irish, and American drama since 1880. A reading and discussion of modern and contemporary plays. Among the dramatists considered are Jones, Pinero, Wilde, Galsworthy, O'Neill, Howard, Rice, and Green. Prereq., 12 hrs.; or 9 hrs., including 101, and 3 hrs. dramatic art.

240. BYRON, SHELLEY, AND KEATS

(2) Peckham

A study of the most important poems and the relation of the poets to their age. Prereq., 12 hrs.

242. HISTORY OF LITERARY CRITICISM

(2) Heidler

A rapid study of the development of critical theories from ancient Greek times to the mid-nineteenth century. Prereq., 12 hrs.

245. TENNYSON AND BROWNING

(3) Peckham

A study of the two major Victorian poets, their backgrounds, and some of their most representative poems. Prereq., 12 hrs.

250. BOOKS OF THE SEASON

(2-4) Mackinnon

An extensive reading course in the best books of the season. Prereq., 12 hrs. or 9 hrs. and permission.

254. LITERARY BIOGRAPHY

(2) Smart

A study of some of the important literary biographies and a consideration of tendencies in current biographical literature. Prereq., 12 hrs.

258. MIDDLE ENGLISH

(3) Wray

A course designed to acquaint the student with the literature of the Middle Ages (exclusive of Chaucer) together with the changing language. Prereq., 12 hrs.

270. SPENSER

(2) Wray

A study of the poems of Spenser with emphasis on *The Faerie Queene*. Prereq., 12 hrs.

273. CHAUCER

A careful study of the life and poetry of Chaucer by means of lectures, translations, and seminar reports. Prereq., 12 hrs.

277. THESIS WRITING

(I) The Staff

(3) Heidler

A course for graduate students in all departments, with special attention to the form and organization of research papers in the field of interest. Prereq., 12 hrs.

280. STUDIES IN ENGLISH

(1-6) The Staff

Directed reading and research in English or American literature. Credit not to exceed three hours in any one semester. Prereq., 12 hrs. and permission.

391. SEMINAR IN ENGLISH

(2) The Staff

An introduction to literary research. Students are given an introduction to bibliography and methods of research in literary history. Minor problems are assigned. Prereq., 18 hrs. and permission.

395. THESIS

(4-8) The Staff

Prereq., permission.

FINANCE

Professors Armbruster, Hanson (chairman)

Instructors Broman, Grinaker

Lecturer Wolfe

75. PERSONAL FINANCE

(2) Hanson

Designed to assist the student in the budgeting and management of his personal finances both as a student and as a member of society at a later time.

101. MONEY AND CREDIT

(3) Hanson

The elementary concepts of money, credit and exchange, and a historical survey of monetary systems with special emphasis on price stabilization, monetary reform, and credit problems.

106. BANKING PRINCIPLES

(3) Hanson

The theory of banking, the state and national banking systems, the Federal Reserve system, and a historical survey of banking in the United States. Prereq., 101.

121. BUSINESS FINANCE

(3) Armbruster, Hanson, Broman, Grinaker

The elements of business finance, the corporation, corporate securities, and financial plans.

142. CONSUMER FINANCING

(2) Hanso

A survey of the institutions other than commercial banks which are designed to furnish this type of financing. Prereq., 101 or permission.

156. ADVANCED BUSINESS FINANCE

(3) The Staff

The sale of securities, distribution of income, expansions and reorganizations. Prereq., 121.

175. INVESTMENT PRINCIPLES

(2) Wolfe

A study of various types of securities; investment tests, investment

policies, methods of security analysis, and sources of information. Prereq., 121 or permission.

201. THE STOCK MARKET

(2) Hanson

The organization, operation, and regulation of stock exchanges, with particular reference to the New York Stock Exchange. Prereq., 101 and 121.

206. INVESTMENT ANALYSIS

(2) Wolfe

An analytical approach to the formation of investment programs and the selection of specific securities. Prereq., 175.

212. CREDITS AND COLLECTIONS

(2) Paynter

The principles, methods, and policies of mercantile and retail credit. Prereq., 101 and Ec. 102.

215. PROPERTY AND CASUALTY INSURANCE

(2) Hanson and Staff

The fundamental economics of property and casualty insurance. Various types of property and casualty insurance and problems arising out of their use; i.e., fire, smoke, windstorm, lightning, public liability, automobile, accident and health, hospitalization, etc. Prereq., Ec. 102.

216. LIFE INSURANCE

(2) Paynter and Staff

The fundamental economics of life insurance. The principles and practices of life insurance including types of contracts, group and industrial insurance, annuities, etc. Prereq., Ec. 102.

252. INTERNATIONAL FINANCE

(3) The Staff

The financial relations between nations dealing with such topics as the theory of foreign exchange, the theory of international prices, foreign investments, war debts, international monetary standards, and international banking. Prereq., 101 and Ec. 102.

281. RESEARCH IN FINANCE

(2-8) The Staff

Special studies in money, banking, or business finance. Prereq., 9 hrs., Ec. 102, and permission.

391. SEMINAR IN FINANCE

(2-10) The Staff

Prereq., 9 hrs., Ec. 102, and permission.

395. THESIS

(4-8) The Staff

Prereq., permission.

Additional courses:

Ec. 215-Public Finance

Ec. 220—Trust and Corporation Problems

FINE ARTS

17-18. INTRODUCTION TO THE FINE ARTS

Seigfred

Analysis of the form, media, and content of the major arts stressing interrelationship of architecture, the dance, dramatic art, music, literature, and painting through recognition of common art factors.

121, 122. HISTORY OF PAINTING AND SCULPTURE

(3) Calkin

Periods, styles, and great personalities in the history of painting and sculpture from early times to the present. Analysis of aesthetic qualities in masterpieces of art.

123, 124. HISTORY OF MUSIC

(3) Morley

Development of music from ancient times to the present. The outstanding characteristics of the various periods thoroughly illustrated by recordings and performances. Not open to students who have received credit in Mus. 5-6.

175, 176. HISTORY OF ARCHITECTURE

(3) Denison

A general survey of the development of architecture with emphasis on environmental influences. Illustrated lectures.

179-180. HISTORY OF THE VISUAL THEATRE

(3) The Staff

Survey of theatrical production and acting during the most important periods in the history of the theatre. Development of the related arts of dance and the motion picture.

203-204. HISTORY OF ORATORY

(3) Staats

Study of the speeches of the outstanding orators, the circumstances under which they were delivered, and their conformance to aesthetic principles. Modern orations will be analyzed through the use of recordings. Prereq., Speech 112.

Additional courses:

See Architecture, Dramatic Art, Music, Painting and Allied Arts, Photography, Radio, and Speech and Speech Correction.

FRENCH—See Romance Languages

GEOGRAPHY AND GEOLOGY Professors Cooper (chairman), Dow Assistant Professors Sturgeon, Abbott

A major in the field of geography or geology may qualify for the positions of teacher, geographer, or geologist. Trained geographers and geologists are in demand in government bureaus, in the fields of conservation of natural resources, weather bureau work, and in teaching.

GEOGRAPHY

The major requirement in geography for the A. B. degree is 30 semester hours in approved departmental courses, including Geol. 1-2 or 125 and 126.

3-4. ELEMENTS OF GEOGRAPHY

(3) Cooper

Elementary courses in geography emphasizing the causal relationships between life activities and the geographic environment.

101. INDUSTRIAL AND COMMERCIAL GEOGRAPHY

(3) Abbott, Cooper

A study of the world's major products and their distribution and consumption. Not open to students who have had Ec. 15.

102. GEOGRAPHY OF ANGLO-AMERICA

(3) Cooper

The course develops in detail the geography of the natural resources of Anglo-America and the geographic influences which affect those resources.

105. GEOGRAPHY OF LATIN AMERICA

(3) Cooper

The course develops in detail the geography of the natural resources of Latin America and the geographic influences which affect those resources.

108. GEOGRAPHY OF EUROPE

(3) Dow

The course develops in detail the geography of the natural resources of Europe and the geographic influences which affect those resources.

112. GEOGRAPHY OF ASIA AND ITS ISLANDS

(3) Dow

The course develops in detail the geography of the natural resources of Asia and its islands and the geographic influences which affect those resources.

131. GEOGRAPHY OF OHIO

(2) Cooper

The geography of Ohio is developed from the regional point of view and by means of the problem method.

132. CONSERVATION OF NATURAL RESOURCES

(3) Dow

A study of the vital problems of the conservation of soils, water, minerals, forests, wild life, and land use. The interrelations of these various factors, educational significance, and appreciation are emphasized. Field trips.

142. CONSERVATION PROBLEMS FOR ELEMENTARY TEACHERS

(3) Beechel, Dow, and Supervising Critics

(Same as Ed. 142) A laboratory course in the techniques used in the recognition and solutions of natural resources conservation problems on the elementary school level. The fundamental concepts of the major resources such as soil, water, forest, minerals, and wild life and their relationships to human progress are emphasized. Teachers in training will cooperate with children and supervisors in the elementary school in the development and control of wise land use practices in an assigned area. A laboratory and field course. Fee, \$3.

145. GEOGRAPHIC INFLUENCES IN AMERICAN HISTORY

(3) Dov

A course developed to show the importance of geographic factors in history with special emphasis upon the history of the United States.

150. GEOGRAPHY AND ENVIRONMENT

(3) Cooper

A course in the advanced principles of geography. Those aspects of geography which have to do with the adjustments of man and the responses of plants and animals to natural environment throughout the world are studied. Not open to students who have had Geog. 4.

169c. TEACHING OF CONSERVATION

(3) Dow

(Same as Ed. 169c) Methods of presenting the subject matter of conservation at the junior and senior high school levels. Field trip techniques, project construction, and general visual aids are included. Prereq., 132.

175. ELEMENTARY METEOROLOGY

(3) Dow

Fundamentals of the weather elements such as temperature, pressure, moisture, winds, etc. Nature and behavior of storms. Fundamentals of air mass analysis. Weather map interpretation and construction. The Weather Bureau and its work. Special emphasis on aeronautical phases. 3 lec. and 1 lab. Fee, \$4.

176. AERONAUTICAL METEOROLOGY

(2-3) Dow

Detailed synoptic weather analysis, with special emphasis on air masses, frontal phases, symbols, and forecasting techniques. 2 lec. and 1-2 lab. Prereq., 175 and Phys. 113. Fee, \$3 or \$4.

202. WORLD WEATHER AND CLIMATE

(2-3) Dow

Nature, causes, and significance of weather and climatic phenomena on a world-wide regional basis. Prereq., 6 hrs. including 175.

210. POLITICAL GEOGRAPHY

(3) Dow

A study of the geography of boundary lines, of colonial policies, and of the geographic principles which influence international relations and problems. Prereq., 6 hrs.

215. CARTOGRAPHY AND GRAPHICS

(1-2) The Staff

The elementary principles of map drawing and graph making. Prereq., 6 hrs., or 3 hrs. and 6 hrs. civil engineering.

282. FIELD STUDIES IN GEOGRAPHY

(1-4) The Staff

Supervised geographic studies of local areas or industries involving fundamentals of research. Prereq., 12 hrs.

GEOLOGY

The major requirement in geology for the B. S. degree is a minimum of 20 semester hours and Geog. 150. In addition, the following extradepartmental courses are required: Chem. 1-2 or 3-4, C. E. 10, 110, Math. 5, 6. It is recommended that students take Phys. 5, 6.

The major requirement for the A. B. degree is 20 semester hours approved by advisers in the department.

1-2. ELEMENTARY GEOLOGY

(3) Abbott, Dow, Sturgeon

An introductory laboratory course in earth science. The earth's features are studied with reference to their origin and significance and emphasis is given to physiographic changes now in progress. These courses are desirable prerequisites for all courses in geography and geology except Geol. 125. 2 lec., 2 lab., and field trips. Fee, \$4.

125. PHYSICAL GEOLOGY

(3) Dow, Sturgeon

A survey of physical geology for upperclassmen who have not taken

Geol. 1-2. The course is concerned with the appreciation of geological features and the agencies that produce them. 2 lec., 2 lab., and field trips. Fee, \$3.

126. HISTORICAL GEOLOGY

(3) Sturgeon

A history of the earth with special emphasis on the evolution of the North American continent and the development of life. Hypotheses for the origin of the earth are considered. 2 lec., 2 lab., and field trips. Prereq., 2 or 125. Fee, \$3.

128. ELEMENTARY MINERALOGY

(2) Abbott, Sturgeon

A study of minerals with emphasis on physical properties, crystal forms, classification, and identification. 1 lec., 2 lab., and field trips. Prereq., 2 or 125 and Chem. 1 or 3. Fee, \$3.

129. ELEMENTARY PETROLOGY

(2) Abbott, Sturgeon

A study of rocks with emphasis on origin, composition, physical properties, classification, and identification. 1 lec., 2 lab., and field trips. Prereq., 128. Fee, \$3.

133. ENGINEERING GEOLOGY

(3) Abbott, Sturgeon

A study of the principles, methods, and materials of geology of value to engineers. 2 lec., 2 lab., and field trips. Fee, \$3.

203. ECONOMIC GEOLOGY

(3) Abbott, Sturgeon

The study of the metallic and nonmetallic mineral resources of the earth's crust which are of use to mankind. 2 lec. and 2 lab. Prereq., 128 and 129. Fee, \$4.

214. PHYSIOGRAPHY (GEOMORPHOLOGY) OF THE UNITED STATES

(3) Abbott, Dow

The geologic structure, surface features, boundaries, general physical characteristics, and directly related adjustments of the physiographic regions of the United States. Field trips. Prereq., 6 hrs. including one of the following: 2, 125, 126, or 133; or 3 hrs. and 6 hrs. physical science.

220. PRINCIPLES OF SEDIMENTATION AND STRATIGRAPHY (3) Sturgeon

Elements involved in the formation of sediments and in determining the succession and chronology of stratified rocks. 3 lec., 1 lab., and field trips. Prereq., 126, with 128 and 240 recommended. Fee, \$4.

221. STRUCTURAL GEOLOGY

(3) Dow, Sturgeon

A study of the earth's architecture and of the diastrophic forces instrumental in the deformation of the earth's crust. Prereq., 2, with 126 recommended. 3 lec., 1 lab., and field trips. Fee, \$4.

240. PALEONTOLOGY

(4) Sturgeon

A study of fossils with emphasis on the invertebrates, their morphology, classification, and geologic and geographic distribution. 2 lec., 4 lab., and field trips. Prereq., 126 or Zool. 226. Fee, \$5.

283. FIELD STUDIES IN GEOLOGY

(1-4) The Staff

Supervised geologic studies of local areas or geologic problems involving fundamentals of research. Prereq., 12 hrs.

GEOLOGY—See Geography and Geology

GERMAN

Professor Hess (chairman) Associate Professor Krauss Acting Instructor Hammer

1-2. BEGINNING GERMAN

(4) The Staff

The course includes instruction in the fundamental grammatical principles, drill in pronunciation, conversation, and the reading of prose.

100. INTERMEDIATE GERMAN

(3) The Staff

Grammar review and systematic training in pronunciation, reading, and translation. Some scientific German will be read on request. The course fits the needs of those desiring either semester of second-year German, and it may be taken either before or after Ger. 101 without duplication. Prereq., 2 or 2 yrs. high school German.

101-102. INTERMEDIATE GERMAN

4) The Staff

The course includes the study of various short poems and stories of literary excellence, grammatical review, and work in oral and written composition. The drama, especially *Wilhelm Tell*, is included in Ger. 102. Prereq., 2 or 2 yrs. high school German.

105, 106. SCIENTIFIC GERMAN

(2) Krauss

A reading course designed to give the student familiarity with German scientific terms. Prereq., 101 or 3 yrs. high school German.

108. GERMAN FOR ORAL PRACTICE

(3) Hess

A course in which German pronunciation, conversation, and idioms are stressed. Simple tales from the *Bilderlesebuch fuer Anfaenger* will be reread for developing a practical vocabulary and fluency in speaking idiomatic German. In addition, other narrative prose suited to the needs of the class will be read and discussed in German. This course may be taken either before or after Ger. 101 without duplication. Prereq., 2, or 2 yrs. high school German, and permission.

109-110. GERMAN GRAMMAR AND COMPOSITION

(2) Hess

A thorough review of German grammar with drill in formal and free composition; also considerable practice in German conversation. Required of all German majors and those students planning to teach German. Prereq., 102 or 3 yrs. high school German, or permission.

121. MODERN GERMAN PROSE

(2) Hess

To develop an easy ability in reading German. Selected prose readings from contemporary authors dealing with German institutions,

GERMAN 205

customs, and legends. For all students interested in modern languages or the social sciences. Prereq., 102, or 101 with a grade of A, or 3 yrs. high school German.

165g. TEACHING OF GERMAN

(2) Hess

(Same as Ed. 165g) Recent literature on language methodology, phonetics, practical drill in pronunciation, as well as the development of lesson plans. Open only to fourth-year German students by special permission.

201, 202. SURVEY OF GERMAN LITERATURE

(3) Hess

Prereq., 102.

211, 212. MODERN GERMAN DRAMA

3) Hess

A study of the German drama of the nineteenth century and the reading of the more important plays connected with the various movements. Prereq., 102 or 4 yrs. high school German.

213. CLASSICAL GERMAN DRAMA

(3) Hess

Plays of Lessing, Goethe, and Schiller are studied in relation to German classicism. Prereq., 102.

214. GOETHE'S FAUST

(3) Hess

A detailed study of Goethe's greatest contribution to modern thought and life. Prereq., 213.

219. THE GERMAN SHORT STORY, 1800-1850

(2) Krauss

Rapid reading of representative short stories from Romanticism to Poetic Realism with brief discussion of the literary movements. Includes Kleist, Eichendorff, Hoffmann, Chamisso, Droste von Huelshoff. Prereq., 102.

220. THE GERMAN SHORT STORY, 1850-1900

(2) Krauss

Rapid reading of representative short stories of Poetic Realism with brief discussion of this literary movement. Includes Storm, Stifter, Heyse, Keller, Meyer. Prereq., 102.

221. CONTEMPORARY GERMAN SHORT STORY

(2) Krauss

Rapid reading of representative stories from Naturalism to the New Realism with brief discussion of the various literary movements. The course may be taken either before or after Ger. 219, 220 since it deals chiefly with the *Novelle* of the twentieth century. Prereq., 102.

222. WAGNER'S POETICAL WORKS

(2) Krauss

Richard Wagner's principal music dramas will be read and discussed for their literary and dramatic content. Musical highlights will be illustrated with phonograph records. Prereq., 102.

395. THESIS

(4-8) The Staff

Prereq., permission.

GOVERNMENT

Professors E. B. Smith (chairman), Hoover*
Associate Professor Morrison
Assistant Professor Gusteson
Instructor Ernest Collins

The work of the department of government is planned to meet the needs of those who desire to understand the organization and functions of government, to prepare students to enter government service, to provide for prelaw students, and to train teachers of government and civics. For course on teaching techniques, see Hist. 169h—The Teaching of History and Civics in Junior and Senior High Schools.

I, 2. AMERICAN GOVERNMENT

(3) E. B. Smith, Morrison, E. Collins

The American political system, including national, state, and local governments. Govt. 1 includes the political and constitutional development, the organization, and the functioning of the National Government. Govt. 2 is concerned with the organization and the functioning of state and local governments.

86. POSTWAR POLICIES AND PROBLEMS

(2-3) E. B. Smith

Plans for postwar recovery; the transition period; principles of the peace; proposals for organization—federation, regional organization, and international government; international administrative agencies; policies for the avoidance of war and the preservation of peace.

101, 102. COMPARATIVE GOVERNMENT

(3) E. B. Smith, E. Collins

A comparison of the American, European, and Oriental systems of government, including organization, procedure, popular representation, and the effect upon the social and economic life of the people.

105. CURRENT POLITICAL AND SOCIAL PROBLEMS

(3) E. B. Smith

A consideration of current problems of a political, social, and economic nature to develop an understanding of what is happening and to establish the habit of reading regularly newspapers and periodicals.

201, 202. AMERICAN CONSTITUTIONAL LAW

(2) Hoover

The principles of American constitutional law as seen in leading cases, with special reference to political theories and national development. Prereq., 6 hrs. government or history.

203. MUNICIPAL GOVERNMENT

(2-3) E. Collins

The creation and legal powers of cities; emerging industrial and defense problems as they affect city government; metropolitan areas; citizen groups, bosses, political parties, elections; old and new forms of municipal government. Prereq., 6 hrs.

204. MUNICIPAL ADMINISTRATION

(2-3) E. Collins

An analysis of the administrative functions of municipal government: personnel, finance, police, housing, planning, health, public utility regulation and ownership. Prereq., 6 hrs.

^{*}Will retire June 30, 1947.

205. AMERICAN POLITICAL PARTIES

(2-3) Hoover

The origin and growth of national parties, the organization and methods of parties, the influence of economic and social conditions on party policy, the position and functions of the party system in democracies. Prereq., 6 hrs.

208. LEGISLATURES AND LEGISLATIVE PROCESSES (2-3) Gusteson

Representation, organization, and procedure in legislative assemblies; relationship between legislative assemblies and the executive, administration, courts, and the people; process of law making, legal procedure, and judicial review; common law, executive ordinances, and popular law making. Prereq., 6 hrs.

216. INTERNATIONAL RELATIONS

(2-3) E. B. Smith

Basic factors involved in world politics, including the modern state system, nationalism, and militarism, the evolution of international relations, forces and conditions affecting international relations, and the formulation of national foreign policies. Prereq., 6 hrs. government or history.

217. CURRENT INTERNATIONAL PROBLEMS

(2-3) E. B. Smith

The nonhistorical study of international relations, international problems arising from the conflict of national foreign policies, programs for national security, efforts toward world political order, contemporary policies of the Great Powers, and reconstruction following the Second World War. Prereq., 6 hrs. government or history.

223, 224. INTERNATIONAL LAW

(2-3) E. Collins

The development of the principles of international law governing the community of nations, their present status and unsettled features, agencies for interpreting and administering international law. Prereq., 6 hrs.

241. AMERICAN FOREIGN POLICY

(3) Morrison

American diplomatic history since 1776, with emphasis on modern times, and an introduction to general diplomatic practices. Prereq., 6 hrs. government or history.

243. AMERICAN POLITICAL THOUGHT

(2-3) E. B. Smith

The origin and development of political ideas in the United States, growth of democratic principles from the colonial times to 1865, an analysis of recent trends in American political thought, and the effect of social and economic changes upon political thinking. Prereq., 6 hrs. or 9 hrs. history.

244. RECENT POLITICAL THOUGHT

(2-3) E. B. Smith

Recent political theories basic to political and social institutions: individualism, collectivism, fascism, and democracy; emphasis on the European version of democracy, totalitarianism of the communist and fascist states, and the relation of the individual to political authority. Prereq., 6 hrs. or 6 hrs. European history.

248. PUBLIC ADMINISTRATION

(2-3) E. Collins

The theory and practice of administrative organization, and control of administrative action, with emphasis on financial and public personnel administration. Basic course for preparation for civil service examinations. Prereq., 6 hrs.

249. ADMINISTRATIVE LAW

(2-3) E. Collins

Organization, functions, procedures, and administrative problems of selected national regulatory agencies; principles affecting administrative discretion; administrative power over private rights; enforcement and judicial control of administrative action. Prereq., 6 hrs.

301. PROBLEMS IN GOVERNMENT

(1-6) The Staff

Research or directed reading based upon the student's special interest. Prereq., 15 hrs.

391. SEMINAR IN GOVERNMENT

(1-6) The Staff

Prereq., 15 hrs.

395. THESIS

(4-8) The Staff

Prereq., permission.

GREEK—See Classical Languages

HEALTH-See Physical Welfare

HISTORY

Professors Hoover*, Volwiler (chairman), E. B. Smith, Whitehouse Associate Professors Morrison, W. J. Smith, Jolliffe Assistant Professors Field, Gustavson

The major requirement in history for the A.B. degree consists of a minimum of 24 hours, including Hist. 1, 2, 110, 111, and at least two courses in or above the 200 group, selected from more than one field of history. Hist. 1, 2 should be taken during the freshman year. Hist. 239, 240, and 255 are recommended for prelaw students.

Graduate students majoring in history are required to have Hist. 301.

1,2. WESTERN CIVILIZATION IN MODERN TIMES

(3) Volwiler, W. J. Smith, Gustavson

Hist. 1 covers the period from 1450 to 1815 and stresses the Renaissance, the Protestant Reformation, the agricultural and commercial revolutions, European expansion in Africa, Asia, and America, the balance of power, the French Revolution and the Napoleonic Era. Hist.

^{*}Will retire June 30, 1947.

2 places emphasis on the industrial revolution, the unification of Italy and Germany, modern imperialism in Africa and Asia, the rise of Japan, the United States as a world power, World War I, the rise of totalitarian states, World War II, and efforts towards world organization.

101. ENGLISH HISTORY TO 1603

(3) Gustavson

102. ENGLISH HISTORY SINCE 1603

(3) Gustavson

110. HISTORY OF THE UNITED STATES TO 1865

(3) Hoover, Morrison, Field

III. HISTORY OF THE UNITED STATES SINCE 1865

(3) Hoover, Morrison, Field

113. ANCIENT HISTORY
114. MEDIEVAL HISTORY

(3) Jolliffe
(3) Gustavson

A study of social, economic, and cultural forces of the Middle Ages with emphasis on the institutional and cultural life from the fall of Rome to the Renaissance.

115. THE OLD SOUTH

(3) Morrison

A study of the plantation regime in the ante bellum South, with emphasis on the daily life on the various types of plantations.

116. THE NEW SOUTH

(3) Morrison

Social, economic, and political life in the South since 1865, rural conditions, industrial development, labor conditions, the problem of white and black, educational progress, the solid South in politics, the South today.

132. HISTORY OF OHIO

(2-3) Volwiler

145. LATIN AMERICAN HISTORY

(3) Whitehouse

Emphasis will be placed on the national rather than the colonial period.

169h. TEACHING OF HISTORY AND CIVICS IN JUNIOR AND SENIOR

HIGH SCHOOLS

(2) E. B. Smith

(Same as Ed. 169h) The development of history and civics as school subjects: objectives, instructional methods and materials, types of work, organization of the course of study, testing, and school problems related to teaching the subjects.

170. THE FAR EAST

(3) W. J. Smith

A study of the history of China and Japan and their relations with other countries.

211. FRENCH REVOLUTION AND NAPOLEONIC ERA Prereq., 6 hrs.

(3) Gustavson

212. EUROPE FROM 1870 TO 1919

(3) Gustavsor

The development of England, France, Germany, Italy, and Russia; a study of the historical setting for an era of social upheaval and World Wars. Prereq., 6 hrs.

213. EUROPE SINCE 1919

(3) Gustavson

A continuation of Hist. 212. The twenty-year armistice, World War II, and present problems. Prereq., 6 hrs.

225. LEADERS IN LATIN AMERICAN HISTORY

(2) Whitehouse

Prereq., 6 hrs. including 145 or permission.

226. LATIN AMERICA AND THE UNITED STATES

(2-3) Whitehouse

A topical treatment of the diplomatic relations between the United States and the Latin American countries. Prereg., 6 hrs.

230. HISTORY OF RUSSIA

(3) Gustavson

A survey from the earliest times to the Soviet regime. The more recent period is stressed. Prereg., 6 hrs.

235. HISTORY OF CANADA

(2) Jolliffe

Prereq., 6 hrs.

236. REVOLUTIONARY ERA

(3) Hoover

An intensive study of the causes of the Revolution, the Declaration of Independence, the struggle for independence, and the history under the Articles of Confederation. Prereg., 6 hrs.

237. FORMATION OF THE UNION, 1789-1829

(3) Hoover

A study of the organization of the government under the new constitution, development of political party system, great court decisions. Prereq., 6 hrs.

239. ENGLISH CONSTITUTIONAL HISTORY TO 1485

(3) Gustavson The origin and early development of English legal institutions, parliamentary monarchy, and the foundations of English law. This course is especially designed to meet the needs of history majors and prelaw students. Prereq., 6 hrs.

240. ENGLISH CONSTITUTIONAL HISTORY SINCE 1485

(3) Gustavson

A study of the political and legal evolution of the modern English . state, with special emphasis upon constitutional forms and precedents, basic concepts of law, and the interpretation of the parliamentary system. Prereq., 6 hrs. including 239, or permission.

241. THE BRITISH EMPIRE

(3) Gustavson

The evolution of the British Empire to the beginning of the twentieth century, with special emphasis on the development of colonial policy, imperialism, the growth of crown colonies, colonial reform, and the growth of nationalism in the self-governing colonies and India. Prereq., 6 hrs.

242. THE BRITISH EMPIRE

(3) Gustavson

Later developments in the British Empire, including a survey of the organization and structure of the Third Empire, the achievement of dominion status, and the evolution of the British Commonwealth of Nations. Prereg., 6 hrs.

244. THE RENAISSANCE

(2) Gustavson

The dawn of the Renaissance and the beginnings of modern times are emphasized. Special attention is given to social, economic, and institutional development. Prereq., 6 hrs.

245. IMPERIALISM AND WORLD POLITICS

(3) Volwiler

Types of imperialism; empire building during the nineteenth and twentieth centuries by Russia, Japan, United States, Great Britain, France, Germany, and Italy. Prereq., 6 hrs.

246. THE REFORMATION, 1500-1648

(2) Gustavson

A study is made of the rise of nationalism and of religious change in Western Europe. Emphasis is laid on the contributions to contemporary society made by protestantism and nationalism. Prereq., 6 hrs.

250. COLONIAL AMERICA

(2) Hoover

The colonies, their local situation, and their position in the British government. Prereq., 6 hrs.

251. SECTIONAL CONTROVERSY, 1829-1850

(2) Morrison

Slavery and political controversy, rise of the common man, rural conditions, transportation, immigration, education, the factory system, reform agitation, territorial annexations, growth of nationality. Prereq., 6 hrs.

253. THE UNITED STATES, 1850-1877

(3) Morrison

The sections of the United States in 1850, forces leading to war, the great conflict; Reconstruction, its background and development; restoration of home rule in the South. Prereq., 6 hrs.

254. THE UNITED STATES SINCE 1900

(3) Morrison

Social conditions, agriculture, business, transportation, communication, labor, imperialism and foreign trade, trends toward state capitalism and regulation, new governmental agencies, political changes, reforms, the new outlook. Prereq., 6 hrs.

255. CONSTITUTIONAL HISTORY

(2) Hoove

The Constitution of the United States: its origin, formation, and ratification. Prereq., 6 hrs.

256. THE EMERGENCE OF THE MODERN UNITED STATES, 1877-1900

(3) Volwiler

Social and intellectual conditions, agrarian unrest, rise of large corporations and their regulation, railroad building, tariff policies during the Harrison-Cleveland era, the Spanish-American War, and the drift toward imperialism and world power. Prereq., 6 hrs.

257. THE WESTWARD MOVEMENT

(3) Volwiler

The expansion from the Atlantic Coast to the Pacific. Explorations, Indian trade, land policies, pioneer life, territorial acquisitions and state making, trails and railroads to the Far West, rise of cowboy land, types of later frontiers, and influence of the West upon American ideals and institutions. Prereq., 6 hrs.

259. STATESMEN OF THE UNITED STATES Prereq., 6 hrs.

(3) Volwiler

272. DIPLOMATIC HISTORY OF THE FAR EAST SINCE 1839 (3) W.J. Smith A study of the Far East in its relation to American, British, French, German, and Russian diplomacy; problems of imperialism in China, India, Japan, French Indo-China, Malaya, and the Philippines; the impact of World Wars I and II and the emergence of nationalism. Prereq., 6 hrs. including 170 or permission.

273. THE FAR EAST AND WORLD WAR II

(3) W. J. Smith

This course will deal with the causes of the war, the campaigns of the war in the Far East, and the social, economic, and political trends growing out of the conflict. Prereq., 6 hrs. including 170 or permission.

298. PROBLEMS IN HISTORY

(1-6) The Staff

Intensive individual work either in research or in systematic reading along the lines of the student's special interest under the supervision of a member of the staff. Prereq., 15 hrs. and permission.

299. REPRESENTATATIVE HISTORIANS AND THEIR WRITINGS (2-3) Volwiler Lectures and discussions of typical historians from the time of Herodotus with readings from their masterpieces to illustrate schools of interpretation, philosophies of history, and the development of historical writing. Prereq., 12 hrs.

301. HISTORIOGRAPHY AND METHODOLOGY

(2-3) Volwiler

An introduction to the technique of historical investigation with practice in historical criticism and writing. Prereq., 15 hrs.

391. SEMINAR IN HISTORY

(1-6) The Staff

Reports based upon original research with group discussion and criticism. Prereq., 15 hrs. and permission.

395. THESIS

(4-8) The Staff

Prereq., permission.

HOME ECONOMICS

Professors Justin, Roberts

Associate Professors Patterson, Morse, Miller Assistant Professors Gerard, Philson

Instructors Davis, Lockard

Acting Instructors L. J. Calvin, Bennett

The School of Home Economics offers work in the following fields: (1) Clothing and Textiles, (2) Family Relationships and Child Development, (3) Foods and Nutrition, (4) Home Economics Education, and (5) Home Furnishing, Equipment, and Management.

Requirements for a Bachelor of Science in Home Economics degree are listed on pages 90-96. A series of elective courses has been set up for students majoring in other departments who wish to get some training in home and family living. These courses are listed on page 96.

GENERAL HOME ECONOMICS

51. ORIENTATION IN HOME ECONOMICS

(1) Justin assisted by specialists in each field History of home economics. The value of home economics in education for personal, home and family living, homemaking, and vocational training. The place of home economics in the present organization of the school curriculum.

72. HOME NURSING AND FAMILY HEALTH (2) Staff Member

Training in simple procedures in the care of the sick and minor accidents in the home. A study of disease prevention and health promotion for the family.

291. SEMINAR IN HOME ECONOMICS

(1-2) The Staff

Prereg., 18 hours, and permission.

CLOTHING AND TEXTILES

4. CLOTHING APPRECIATION

(3) Morse

A study of clothing, emphasizing good taste, suitability, psychology of dress, selection, and care. Includes some practical problems in construction. 2 lec. and 2 lab. Does not meet the prerequisite for H. Ec. 216. Fee, \$3.

IO. INTRODUCTION TO CLOTHING

Morse

A preliminary course for those with a limited background in clothing. 1 lec., 2 lab. Fee, \$2.

11. CLOTHING SELECTION AND CONSTRUCTION

Morse, Calvin

(3)

A study of essential factors entering into a wise choice of clothing for the family. Principles of construction practiced in the making of simple garments of cotton and of wool. 1 lec. and 4 lab. Prereq., 10, or examination. Fee, \$3.

110. TEXTILES (3) Mors

A basic course in textile fabrics involving the study of fibers, fabric construction, use, and care. 2 lec. and 2 lab. Fee, \$3.

211. ECONOMICS OF TEXTILES AND CLOTHING

2) Gerar

A study of the production, distribution, and qualities of textiles and clothing. Problems on lingerie, hosiery, furs, gloves, shoes, etc. Prereq., 11 and 110; for non-majors, 110 and 3 hrs. economics.

212. DESIGN AND CONSTRUCTION WITH TEXTILES (3)

The use of fabrics and yarns in original designs for clothing, accessories, slip covers, draperies, table linens, etc. Prereq., 11 and 110. 1 lec. and 4 lab.

215. HISTORY OF COSTUME AND TEXTILES

(2) Morse

Study of costume and textiles through the ages as a basis for the understanding and appreciation of present-day costumes. Prereq., 11 or 4, and 110.

216. CLOTHING DESIGN AND CONSTRUCTION

(3) Morse

Two dresses are designed, draped, and constructed. One tailoring problem is given. 6 lab. Prereq., 11 and 110. Fee, \$3.

218. ADVANCED TEXTILES

(3) Morse

Physical and chemical examination of fibers and fabrics. Problems in the comparison and evaluation of fabrics. 1 lec. and 4 lab. Prereq., 110 and 3 hrs. chemistry. Fee, \$3.

219. PROBLEMS IN TEXTILES AND CLOTHING

(1-3) Morse

Students are required to plan and complete one or more problems related to textiles, clothing, or furnishings. Prereq., 6 hrs. and permission.

395. THESIS

(4-8) The Staff

Prereq., permission.

FAMILY RELATIONSHIPS AND CHILD DEVELOPMENT

71. FAMILY LIVING

(2) Lockard

Problems confronting young people in the establishment of a family and the successful management of a home. An elective course for men and women.

170. GROWTH AND DEVELOPMENT OF THE CHILD

(3) Lockard

A study of the physical growth of the child; social, emotional, and mental development from early childhood through the adolescent period. Required of majors in physical welfare. Prereq., 3 hrs. psychology.

171. INTRODUCTION TO CHILD DEVELOPMENT

(2) Justin, Lockard

A study, with reference to the problems of parents, of the physical development and care of the child. 1 lec. and 2 hrs. nursery school observation. Prereq., Psych. 1. Fee, \$2.

272. CHILD DEVELOPMENT

(2) Justin, Lockard

The course deals with the mental health and social and emotional development of the child and with parental techniques for the guidance of young children. 1 lec. and 2 hrs. nursery school observation. Prereq., for home economics majors, 171; for non-majors, 6 hrs. psychology and/or sociology. Fee, \$2.

273. FAMILY RELATIONSHIPS

(3) Justin

A study of the functioning of the successful family and the factors that affect its establishment and maintenance. Prereq., for home economics majors, 272; for non-majors, 6 hrs. sociology and/or psychology.

277. TECHNIQUES WITH YOUNG CHILDREN

(3) Justin

Consideration of the guidance of children in nursery school. Class discussion and practice in the nursery school. Prereg., 272. Fee, \$2.

278. ADMINISTRATION OF GROUP CARE OF YOUNG CHILDREN (3) Justin Organization and administration of the nursery school and of the "home unit" in institutional care. Prereg., 272.

279. PROBLEMS IN CHILD DEVELOPMENT

(2-4) Justin

An intensive study of some phase of child development or guidance. The nursery school may be used as a laboratory if desired. Prereq., 272 or 6 hrs. psychology and permission. Fee, \$2-\$4.

377. SPECIAL PROBLEMS IN FAMILY RELATIONSHIPS

(2-6) Justin

An intensive study of a problem in family relationships. Prereq., 273.

379. SPECIAL PROBLEMS IN CHILD DEVELOPMENT

(2-6) Justir

An intensive study of a phase of child development or a problem in child guidance. The nursery school may be used as a laboratory if desired. Prereq., 272 or 6 hrs. psychology and permission. Fee, \$2-\$6.

395. THESIS

(4-8) The Staff

Prereq., permission.

FOODS AND NUTRITION

21. SELECTION AND PREPARATION OF FOOD

(3) Miller, Calvin

Planned to give the student a knowledge of the principles underlying the preparation of food. 1 lec. and 4 lab. Fee, \$3.

23. ELEMENTARY NUTRITION

(I) Patterson

An elective course for those not majoring in home economics. The selection of an adequate diet and its effect upon the health of the individual. Meets the requirements for obtaining a Red Cross certificate in nutrition.

121. MEAL PLANNING AND SERVING

(3) Calvin, Miller

The selection, preparation, and serving of food on a meal planning basis. 1 lec. and 4 lab. Prereq., 21. Fee, \$3.

123. ESSENTIALS OF NUTRITION

(3) Calvin, Miller

The basic principles of nutrition, practical problems in diet selection, and its effect on the health of the individual. Meets the requirements for obtaining a Red Cross Certificate in Nutrition. An elective course for men and women.

222. EXPERIMENTAL COOKERY

(3) Miller

A study of food preparation from the chemical and physical standpoint. Group and individual experiments on selected problems. A survey of the literature. Oral and written reports. Prereq., 21 and 3 hours organic chemistry. Fee, \$3.

225. NUTRITION

(3) Roberts

Fundamental principles of nutrition based upon the nutritive value of foods and nutritive requirements of man. 2 lec. and 2 lab. Prereq., 8 hrs. chemistry. Fee, \$3.

226. ADVANCED NUTRITION

(3) Roberts

Applications of principles of nutrition to the feeding of individuals and families under varying physiological, economic and social conditions. 2 lec. and 2 lab. Prereq., 225. Fee, \$3.

227. QUANTITY COOKERY

(3) Bennett, Davis

The planning, preparing, and serving of foods in large quantities for residence halls, school lunch rooms, cafeterias, and for school banquets or special parties. 1 lec. and 4 lab. Prereg., 121 and 105.

228. RECENT DEVELOPMENTS IN FOODS AND NUTRITION

(Summer sessions only) (3) Roberts

Reports, discussions, and reviews of scientific literature. Prereq., 226 or 121 and 123.

229. NUTRITION IN DISEASE

(2) Roberts

The use of diet in the prevention and treatment of disease. Problems in planning and preparing therapeutic diets. 1 lec. and 2 lab. Prereq., 226. Fee, \$2.

240. PROBLEMS IN FOODS AND NUTRITION

(2-6) Roberts, Miller

Students are required to plan and complete a problem in some phase of nutrition, experimental foods, or food or nutrition chemistry. Prereq., 9 hrs. foods and nutrition and permission. Fee, \$2-\$6; breakage deposit, \$5.

241. NUTRITION WORK WITH CHILDREN

(2) Roberts

Relation of nutrition to growth and development of children. Methods for improving the nutrition of children through the school and other organizations. 1 lec. and 2 lab. Prereq., 226 or 121 and 123. Fee, \$2.

242. INSTITUTIONAL BUYING

3) Bennett

The wholesale food market; selection and methods of purchasing food in large quantities; and equipment for food departments of institutions. Prereq., 227.

248. INSTITUTIONAL MANAGEMENT

(3) Rennett

Organization and management problems in food service units of institutions. Study of floor plans of these units with relation to the needs of the various services. Personnel problems, labor laws, records, budgeting, food control, and housekeeping. Prereq., 227.

333. SPECIAL PROBLEMS IN CHEMISTRY OF FOODS AND NUTRITION

(3-6) Miller

An intensive study of a phase of food chemistry or nutrition. Prereg., 226 and Chem. 113. Fee, \$3-\$16; breakage deposit, \$5.

395. THESIS

(4-8) The Staff

Prereq., permission.

HOME ECONOMICS EDUCATION

55, 56. HOME ECONOMICS FOR THE ELEMENTARY SCHOOL (2) Patterson

This course gives consideration to the problems related to home economics at the elementary level and offers suggestions for procedures and practices in solving them. Four hours each week for class discussion, observation, and laboratory work. Fee, \$2.

168h. TEACHING OF HOME ECONOMICS

(3) Patterson

(Same as Ed. 168h) Organization, methods, classroom procedures, evaluation, and teaching aids in home economics for secondary schools. Required of senior home economics students who intend to teach home economics. Concurrent, Education 182 and 185. Prereq., for minors, 15 hrs. home economics and permission.

250h. PROBLEMS IN THE TEACHING OF HOME ECONOMICS (1-3) Patterson

(Same as Ed. 250h) Opportunity for individual selection of problems. Prereq., 18 hrs. and 168h.

268. VOCATIONAL HOME ECONOMICS

(3) Patterson

(Same as Ed. 268) History and philosophy of vocational homemaking education. Policies and contemporary trends in this field. Study of procedures and sources of materials. Observations arranged. Prereq., 168h or teaching experience in home economics.

268a. HOME ECONOMICS IN ADULT EDUCATION

(Summer sessions only) (3) Gerard

Organization procedures, curriculum materials, and methods of conducting adult education groups in the field of education for home and family life. Prereq., 18 hrs. home economics.

268b. DEMONSTRATION TECHNIQUES

(2) Miller

Practical experience in the demonstration of foods, equipment, or clothing. Planned for teachers and for those going into foods or public utility work. 4 lab. Prereq., 12 hrs. Fee, \$2.

350h. SPECIAL PROBLEMS IN THE TEACHING OF HOME ECONOMICS

2-6) Patterson

Intensive study of some phase of home economics education. Prereq., teaching experience in home economics.

395. THESIS

(4-8) The Staff

Prereq., permission.

HOME FURNISHING, EQUIPMENT, AND MANAGEMENT

105. HOUSEHOLD EQUIPMENT

(3) Philson

A study of fundamental equipment used in the home. Kitchen planning. 2 lec. and 2 lab. Fee, \$1.

131. HOUSE SELECTION AND FURNISHING

(3) Gerard

The house and its furnishings considered in relation to artistic, economic, and social factors affecting choice. 2 lec. and 2 lab. Fee, \$3.

231. ECONOMICS OF FURNISHINGS

(2) Gerard

A study of the production, distribution, and qualities of furnishings. Problems on china, glass, silver, furniture, bedding, rugs, etc. Prereq., 110, 131; for non-majors, 110, 3 hrs. economics.

234. ADVANCED EQUIPMENT

(3) Philson

Household operating and equipment problems. A critical analysis of the use of equipment to establish standards for effective use. Survey of agencies offering services in the field of homemaking. Specialists in related sciences and manufacturing fields cooperate. Prereq., 21 and 105. Fee, \$1.

238. HOUSING . (3) Gerard

Trends in American and foreign housing from the custom-built to the prefabricated house of today. Need for community neighborhood planning. The relationship of housing costs to family income. Prereq., for majors, 131, 251, and 253; for non-majors—not having the major requirement—6 hrs. sociology and/or economics.

251. HOME MANAGEMENT

(2) Philson

A study of the economic use of time, energy, and money in the successful functioning of homes from the viewpoint of the satisfaction of members of the family. Prereq., for undergraduate credit, 21 and 105, or 6 hrs. sociology; for graduate credit, 21 and 105.

253. HOME MANAGEMENT LABORATORY

(3) Philson

Residence in the home management house for one-half semester provides experience in the use of human and material resources of the family for the optimum development of its members. A charge of \$10 per week is made to cover room and board during residence in the house. Prereq., 9 hrs. foods and nutrition, 105, 251 or with 251, and permission.

256. ECONOMICS OF CONSUMPTION

(3) Gerard

Principles, nature, and importance of consumption. Relationship of consumption to production and general welfare. Bases and practices of choice making and market selection. Prereq., 6 hrs. home economics or 6 hrs. economics and sociology, senior rank.

258. PROBLEMS IN FAMILY ECONOMICS

(1-3) Gerard

Individual investigation of family income, expenditures, and standards of living. Minimum standards of living emphasized for majors in social work. Prereq., 256 or 6 hrs. sociology and permission.

352. SPECIAL PROBLEMS IN HOME MANAGEMENT

(2-3) Gerard

An intensive study of the efficient management of time, energy, or money in the home. Prereq., 251 and 253.

395. THESIS

(4-8) The Staff

Prereq., permission.

HUMAN RELATIONS Professors Voigt (chairman), Patrick, Starcher

Dean Hunkins

201. MARRIAGE

(3) Patrick

An analysis of the problems of courtship, marriage, parenthood, and family adjustments in the light of current scientific and philosophical thinking on these topics. While the approach is clinical and the emphasis is on personal factors making for future wholesome marital adjustments, other factors are integrated in order that marriage may be seen in its

broader social relations. Prereq., for undergraduate credit, junior or senior rank; for graduate credit, 12 hrs. social science, or 6 hrs. social science and 6 hrs. biology.

203-204. HUMAN RELATIONS

(3) Starcher and Associates

A study of habits and skills important to men in their association with others in the varied and changing circumstances of their everyday life; effective group participation; leadership and its relation to authority. The course will be taught primarily by the case system—i.e., by class discussions and interpretations of human situations reported as they actually occurred. The facts reported will include both logical and emotional elements and illustrate their interplay in determining the thought and behavior of individuals and groups. Required reading, discussion of such reading, and lectures will be designed to acquaint the student with constructive work in this and allied fields. Prereq., seniors and graduate students by permission. Fee, \$5.

391-392. SEMINAR IN SUPERVISION AND GUIDANCE OF STUDENT LIFE

3) Voigt

A study of the management and direction of dormitory units, personality and health adjustments, the objectives and philosophy of extraclass activities, orientation of freshmen to college life. The relationship between the academic and the social life of students forms the basis of discussion and reports. Problems are discussed from the standpoint of the psychological, sociological, and academic bearings on student life. Prereq., 18 hrs. social sciences and permission.

393-394. LABORATORY IN SUPERVISION AND GUIDANCE OF STUDENT LIFE (3) Voigt, Hunkins

This course is designed to give experience in office and counseling techniques through regular service in the office of the dean of women and the dean of men for those members of the course who do not hold fellowships or assistantships. Fellows and assistants perform similar services but receive no academic credit since the service rendered is considered a partial fulfillment of the requirement for service implied in the stipend. Prereq., 18 hrs. social sciences and permission.

395. THESIS IN SUPERVISION AND GUIDANCE OF STUDENT LIFE (4-6) Voigt An original research problem immediately related to the field of administration and counseling constitutes the basis of the thesis. Prereq., permission.

INDUSTRIAL ARTS

Associate Professor Kinison (chairman)
Assistant Professors Paige, Humphrey
Instructor L. V. Calvin

The requirements for a major in industrial arts include the following: C. E. 1, 2; Ind. A. 1, 2, 7, 11, 103, 105, 116, 121, 124, 131, 141, 160m, 209, 212, and 226. Additional courses are determined by the requirements for the A. B., B. S., or B. S. Ed. degree.

I. WOODWORKING I

(3) Paige

A basic course in woodworking which includes the study of the common cabinet and framing woods, hand and machine tools, joints, glues, and the methods of finishing wood. The laboratory work consists of planning and constructing one or more projects which illustrate various methods of wood fabrication. 1 lec. and 4 lab. Fee, \$3.

2. WOODWORKING II

(3) Paige

Emphasis is placed upon the care and operation of woodworking machinery. A study is made of the decorative processes, veneering, methods of cabinet construction, and house framing. The laboratory work consists of planning and constructing one or more projects of cabinet type. 1 lec. and 4 lab. Prereq., 1. Fee, \$3.

6. WOOD TURNING

(2) Staff Member

This is a laboratory course in the designing and making of objects on the wood turning lathe. It includes spindle, faceplate, chuck and mandrel turning, and methods of finishing on the wood lathe. 4 lab. Fee, \$2.

7. SHEET METAL

(3) Calvin

The laboratory work consists of cutting, forming, seaming, soldering, riveting, and decorating sheet metals. The lecture discussions deal with mining and with the methods of manufacturing of sheet metals, solders, fluxes, and rivets. 1 lec. and 4 lab. Fee, \$3.

8. ORIENTATION IN INDUSTRIAL ARTS

(1) Staff Member

A laboratory course of brief experiences with materials, tools and processes, planning, and finishing. Designed to help the student consider teaching industrial arts as a profession. 2 lab. Fee, \$1.

9. CRAFT AND HOBBY WORK

(2) Kinison

A laboratory course designed to appeal to all students of the university. One may choose to work with wood, metal, leather, reed, plastics, textiles or other available materials. 4 lab. Fee, \$2.

II. GRAPHIC ARTS

(3) Kinison

An introduction to methods of duplicating. Includes study of the mimeograph, the gelatin duplicator, silk-screen printing, photography, block printing, etching, dry point, and blueprinting. 1 lec. and 4 lab. Fee, \$3.

16. CEMENT AND CONCRETE CONSTRUCTION

(2) Staff Member

A study of the materials of concrete construction and practice in the making of concrete vases, garden pools, garden furniture, flagstones, blocks, walks, and walls. 4 lab. Fee, \$2.

26. SHOP ENGINEERING

(2) Humphrey

A study of the equipment, materials, and the organization of industry to acquaint the student with the methods of industrial manufacturing. Includes inspection trips and the outline of the manufacture of an article on a production basis. 1 lec. and 2 lab. Prereq., engineers only. Fee, \$2.

103. PRACTICAL ELECTRICITY

(3) Staff Member

Elementary principles of electricity. Practical working principles of batteries, generators, transformers, motors and motor control equipment; lighting; protective devices; communication by means of telegraph, telephone, and radio. The laboratory includes practice in wiring, construction of a transformer, motor armature wiring, repairing of motors and household appliances. 1 lec. and 4 lab. Fee, \$3.

105. MATERIALS AND FINISHES

A study of the different materials and finishes that are generally used in the industrial arts laboratories; their sources, manufacture, and application.

109. CABINETMAKING

(3) Paige

The study of advanced machine woodworking and its application to housing and industrial uses. Laboratory work includes both individually designed projects of advanced cabinet construction and production work. 6 lab. Prereg., 2. Fee, \$3.

115. ELEMENTARY INDUSTRIAL ARTS

(1-2) Kinison

This course is designed to give essential and simple tool operations and skills that are desirable for teachers of the elementary grades. Common woodworking and metal working hand tools are used. 1 lec. and 1 lab. Prereq., elementary teaching majors only. Fee, \$1 per semester hour.

116. CONSTRUCTIVE DESIGN

(2) Paige

A study of the principles of design and their application to industrial arts projects, and of the identification of the periods of furniture design. 4 lab. Prereg., E. D. 2.

117. SHOP AND MACHINE MAINTENANCE

(2-4) Staff Member Includes the sharpening, adjusting, and repair of the saws, drills and drill presses, jointers, shapers, sanders, milling machines, lathes, and other machines which are used in the woodworking and metalworking laboratories. 4-8 lab. Prereg., 7, 109, 124, or permission.

121. PATTERN MAKING, FORGE, AND FOUNDRY

(2) Calvin

A study of processes, methods, equipment, and organization of these shops as found in industry. Three or more problems are required in each shop. 1 lec. and 3 lab. Fee. \$2.

124. MACHINE SHOP

(3) Humphrey

The shaping of metal by the use of the drill press, the engine lathe, the shaper, the milling machine, and the grinders, including the care and upkeep of these machines. 1 lec. and 4 lab. Fee, \$3.

128. ADVANCED METAL WORK

(3) Humphrey

A continuation of the study of the technical operations on metalworking machinery, the theory of inspections and product control, and the gauging and measuring devices. The major portion of the course is laboratory work to further the student's knowledge and skill in the basic operations of casting, forming, joining, and cutting metal. 9 lab. Prereg., permission. Fee. \$3.

129. WELDING (2) Calvin

This is a course dealing with the principles and techniques of oxyacetylene and electric welding. It includes the operation and care of equipment, properties of metals, and types of joints. The primary aim of the course is to develop skill in welding. 6 lab. Fee, \$5.

131. INTRODUCTION TO CERAMICS

(2) Paige

Includes work with clay in forming simple pottery, tile, and brick. Deals with cement and concrete work, the several kinds of mixes, and the proper proportions of cement, aggregate, and water for the various kinds of construction. 1 lec. and 3 lab. Prereq., 2 or permission. Fee, \$2.

141-142. PRINTING (3) Kinison

Ind. A. 141 consists of learning the case, composition of straight matter, pulling and correcting proofs, imposition, distribution, and platen press work. Ind. A. 142 deals with papers and paper making, ink, care of supplies, designing and setting display work, the making of stereotype mats and castings, the offset process, and press work. 1 lec. and 4 lab. Fee, \$3.

144. PHOTOLITHOGRAPHY

3) Kinison

Practice in the setting and distribution of Multigraph type, operation of the Multigraph, practice in the making of off-set plates of several kinds, and operation of the off-set press. Plate making involves the use of the copying camera and the whirler. 6 lab. Fee, \$3.

147. ADVANCED PRINTING

(3) Kinison

Deals with the problems that are encountered in a commercial printing shop. 6 lab. Prereq., 142. Fee, 23.

151. FARM SHOP I

(3) Staff Member

An opportunity to learn of the operations which are used in the building and repair jobs on the farm. The laboratory work will consist of learning exercises involving carpentry, concrete working, rope making, painting, and sharpening and repairing of farm tools. Emphasis will be placed on the planning of these jobs, and the laboratory exercises will be based on practical materials which will actually be used on the farm or in the farm home. Prereq., permission. 1 lec., and 4 lab. Fee, \$3.

152. FARM SHOP II

(3) Staff Member

Similar to 151. The laboratory exercises will involve bench metal working, forge working, soldering, welding, and harness repair. The learning exercises will consist of practical repair jobs. Prereq., permission. 1 lec. and 4 lab. Fee, \$3.

160m. TEACHING OF INDUSTRIAL ARTS

(3) Kinison

(Same as Ed. 160m) This course deals with the methods of presenting technical and related information in school shop laboratories, with the procedure to follow in giving demonstrations with tools and machines: Special attention is given to the methods of testing and grading of manipulative work. A simple method of accounting for laboratory materials and supplies is presented. Prereq., 6 hrs. and permission.

205. ADMINISTRATION OF DRIVER EDUCATION

(3) Staff Member

Organization, administration, and instruction in driver education and training for instructing high school students; includes accident analysis and methods of prevention, traffic rules and courtesies, important automobile mechanisms, observation and practice in automobile operation, and experience in instructing one student in driving. Special problems are required of graduate students. 2 lec. and 4 lab. Prereq., 3 hrs. education, Psych. 5, and permission. Fee, \$5.

209. PRACTICUM IN GENERAL SHOP

(2) Kinison

An advanced course in techniques designed to unify previous experiences in the specialty laboratories. 4 lab. Prereq., 1, 7, 124, 141, and senior rank. Fee, \$2.

212. EQUIPMENT AND ORGANIZATION OF INDUSTRIAL ARTS LABORATORIES

) Staff Member

A study of the selection of tools and equipment for the several school shop laboratories, the arrangement of the machines and tools in the laboratory, and the selection and handling of supplies. Prereq., 1, 7, 141, and senior rank.

226. HISTORY OF INDUSTRIAL AND VOCATIONAL ARTS

(3) Calvin

A study of the history of the industrial arts movement from its earliest beginnings down to the present. Special consideration is given to the terms of the Smith-Hughes Law and the George Deen Act and their administration in the State of Ohio. Prereq., 160m and 3 hrs. school administration.

228. SPECIAL PROBLEMS IN INDUSTRIAL ARTS

(1-3) Kinison

A research course. Students are encouraged to select a problem for investigation which will involve experimentation as well as the use of the library. Emphasis is placed on the solution of the problem rather than the report of the research. Prereq., senior rank.

350. ADVANCED WOOD, METAL, OR PRINTING

(3) The Staff

Advanced laboratory work in wood, metal, or printing, and a study of the industrial practices in the field selected. A term paper is required. Prereq., 8 hrs. in one field. Fee, \$3.

357. CURRICULUM BUILDING IN INDUSTRIAL ARTS

(3) Kinison

A study of the building of a complete industrial arts curriculum and of the constructing of the several courses that make up the curriculum. Each student constructs a course for one of the several industrial arts subjects. Prereq., 16 hrs.

381. RESEARCH IN INDUSTRIAL ARTS

(3-6) Kinison

A study of the techniques of research and of the reporting of the results of research. Prereq., 15 hrs.

391. SEMINAR IN INDUSTRIAL ARTS EDUCATION

(1-6) The Staff

Reports on recent books and magazine articles, and reports based upon original research will be given and followed by group discussion and criticism. Prereq., 15 hrs.

395. THESIS

Prereq., permission.

(4-8) The Staff

ITALIAN—See Romance Languages

JOURNALISM

Professor Lasher

Associate Professor Jolliffe

Instructors Krimel, Turnbull, Nichols, Webb, Reamer, R. S. Smith

(For courses in Radio Journalism see page 261.)

103. INTRODUCTION TO NEWS WRITING

(3) Lasher

The course deals with the simple news story, stressing the lead. Particular attention is paid to diction and usage and to the fundamentals of sentence structure as agencies for the improvement of style in writing. Prereq., Eng. 2 or 4.

105. THE NEWSPAPER

(2) Lasher

A study of the character, the purposes, and the general organization of the newspaper, including its business and mechanical aspects, with attention to its origin, development, and present status as a quasi-public institution. Prereq., Eng. 2 or 4.

107. NEWSPAPER REPORTING

(3) Jolliffe, Krimel

Instruction in methods of gathering material and writing news narratives, interviews, reports of speeches, follow-up and re-write stories, human interest stories, and specialized news. Practical work covering assignments and preparing copy. Prereq., 103.

110. WRITING FOR PUBLICATION

(2) Krimel

Designed for teachers, school administrators, social workers, and others who wish to know the elementary technique of writing news and feature stories in order to publicize their particular interests. Legitimate methods of getting material into publications are discussed. Not open to journalism majors and minors. Prereq., Eng. 2 or 4.

III. REPORTING PRACTICE

(2-6) Reamer

Students are assigned to general reporting on *The Athens Messenger*, which includes the covering of definite news beats as well as special assignments. Prereq., 107 and permission.

116. SPORTS WRITING AND EDITING

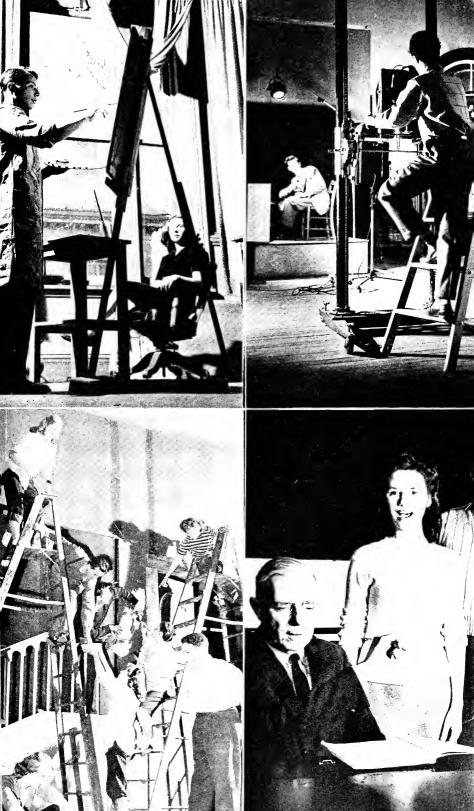
(2) Krimel

The course deals with the technique of gathering, writing, and editing news and comments concerning all sports, amateur as well as professional. Considerable attention is paid to golf, tennis, hockey, and to the promotion of community sports. Prereq., junior or senior rank.

117. NEWSPAPER EDITING

(3) Jolliffe

Principles and practices of newspaper copyreading, headline writing, illustration, and make-up for dailies, community newspapers, and tab-





loids, including regular, special, and Sunday editions. Other phases: style; selecting art and editing picture pages; wire and syndicate news and features; type and mechanical processes. Prereq., 107.

121. EDITING PRACTICE

(2-6) Webb

Students are assigned to copyreading on *The Athens Messenger*, handling local, correspondence, and wire copy, and working out make-up problems. Prereq., 117 and permission.

130. BOOK REVIEWING

(2) Lasher

Following a study of book sections in outstanding newspapers and magazines and the methods of experienced book reviewers, students write reviews of current books of various types. Prereq., Eng. 2 or 4.

134. THE WRITING OF CRITICISM (1948-1949)

(2) Jolliffe

The fundamental principles of art and criticism are studied and applied to concrete situations in reviewing musical, art, theatrical, photoplay, and radio events. Prereq., Eng. 2 or 4 and junior or senior rank.

140. THE COMMUNITY NEWSPAPER

(3) Krimel

The course stresses phases of the editorial and business management of daily or weekly newspapers published in small communities. Problems include: news treatment and editorial comment; the relation of the newspaper to school, church, business, and community life; circulation promotion; securing and preparing of advertising and job printing; mechanical equipment. Prereq., Eng. 2 or 4.

146. NEWSPAPER MAKE-UP AND ADVERTISING TYPOGRAPHY (2) Turnbull

Make-up of various types of standard and tabloid newspaper pages at the stone, following preparation of lay-out sheets. Use of panels, box inserts, engravings, advertisements, and various typographical devices in newspaper make-up. A study of the characteristics of those type families used for headlines, newspaper text, and advertising will be followed with a treatment of symbolism of type faces and their specific uses. There will be practice in setting various types of headlines and cut lines and in the composition of advertising layouts. Fee, \$2.

148. PHOTO ENGRAVING

(2) Staff Member

This will cover selection and preparation of copy, including layout, panel, and montage, problems of production, the engraving process, including the actual production by students of zinc etchings and zinc and copper engravings in the photo engraving laboratory. Projects will be worked out in cooperation with students in news and studio photography. Fee, \$2.

151-152. CONTEMPORARY THOUGHT AND DEVELOPMENTS

(3) Lasher and Others

Important contributions being made in the fields of art, science, music, education, drama, medicine, literature, government, public health, philosophy, economics, psychology, finance, engineering, law, religion, and sociology are discussed by members of the faculty from various departments and by laymen. Material is presented as a background for newspaper writers and readers. Prereq., junior or senior rank,

164i. TEACHING OF HIGH SCHOOL JOURNALISM

(2) Lasher

(Same as Ed. 164j) For those who wish to use the journalism motive in English composition classes, those who may direct the editing of high school publications, or those who plan to teach journalism. Fundamentals of newspaper writing and editing are considered. Attention is given to preparation of school publicity copy for newspapers.

172. THE NEWSPAPER AS A BUSINESS INSTITUTION

(2) Turnbull

The course deals with the organization of the newspaper, emphasizing the various functions and the cooperative responsibilities of the business, editorial, and mechanical departments. Designed for students who are not specializing in business phases of the newspaper.

173. NEWSPAPER CIRCULATION PRACTICE

(2-3) Turnbull

Training in the technique of the Audit Bureau of Circulation system of record keeping. Practical work in circulation, department organization, promotion methods, carrier management, mailing room and transportation supervision at *The Athens Messenger*. Prereq., 172 or 243.

175. NEWSPAPER OFFICE AND PLANT MANAGEMENT PRACTICE (2) Turnbull

A laboratory study of the administration of the accounting and mechanical departments of the newspaper. The publisher of *The Athens Messenger* and the instructor in the business courses in the School of Journalism supervise. Prereq., 173, 177, and Acct. 76 or 81.

177. NEWSPAPER ADVERTISING PRACTICE

(2-6) Nichol

Laboratory work in preparing copy for local display advertisers in *The Athens Messenger*. Other practice problems in the fields of classified, national, and promotion advertising. Prereq., 247.

183. FICTION WRITING FOR NEWSPAPERS AND MAGAZINES (3) Jolliffe Study of the craftsmanship of short fiction appearing in daily and Sunday newspapers and in magazines. Graded practice lessons in fiction technique. Editorial taboos and requirements of syndicates, newspapers, and magazines, and a study of specific markets.

201. ADVANCED REPORTING

(2) Jolliffe, Reamer

Experience at *The Athens Messenger* in some specialized field in which the student does research at the same time. Prereq., 6 hrs. in 111 and permission.

206. NEWSPAPER LAW

(2) Staff Member

Case studies of the law of libel with special emphasis on constitutional and statutory law pertaining to freedom of the press and defamatory writing. A study and discussion of the constitutional, statutory, and common law rights of the newspaper and the reporter. New state and national legislation that affects newspapers. Prereq., 117 or 243, and senior rank.

207. REPORTING OF PUBLIC AFFAIRS

(2) Lasher

The course deals with those facts about the courts, legal procedure, civic agencies, government, politics, and business organizations fundamental for the intelligent reporting of public affairs in a community.

Students are brought into contact with local officials and organizations. Prereq., 111 or permission, and senior rank in journalism.

208. JOURNALISM ETHICS

(2) Lasher

The case method applied to such problems as news suppression, publicity, questionable advertising and business methods, propaganda, and constructive handling of news dealing with crime, religion, politics, capital, labor, and general social conditions. Prereq., 117, or 243, or 247, and senior rank.

222. FEATURE AND MAGAZINE WRITING

(3) Krimel

A study of newspaper, magazine, and syndicate feature stories and articles is followed by practice in writing different types. Problems considered include: discovering desirable material, securing suitable illustrations, bringing out the dominant interest, preparing and selling manuscripts. Prereq., 107 or 12 hrs. English.

223. ADVANCED FEATURE AND MAGAZINE WRITING

(2) Krimel

Students are permitted to select their type of material. Writing is done with the definite idea of publication. A study is made of the most suitable markets for publication. A conference course. Prereq., 222.

225. THE EDITORIAL PAGE

(3) Lasher

A study of the editorial page as to purpose, material, style, tone, and effect. Training is given in the analysis of news and in the writing of news interpretation, news comment, controversial and generalized editorials, and the editorial paragraph. Prereq., 111 or 12 hrs. English, and senior rank or permission.

227. PUBLIC RELATIONS TECHNIQUES

(2) Krimel

Study and practice in the preparation and placing of publicity copy, public relations copy-writing, poster and pamphlet production, house organ and trade journal publication, and public opinion polling. The course presents details of public relations functions below the policy and analysis level. Prereq., 103, 107, 146, and Radio 179, and junior rank.

228. PUBLIC RELATIONS

(2) Krime

Following a study of the various media available for public relations activities, desirable techniques, objectives, and ethical methods, attention will be given to planning effective programs for industrial and business organizations, educational institutions, social welfare agencies, public enterprises, and government departments. Prereq., 107, 111, 222, 227, Radio 179, Soc. 1, 2, Ec. 235, and senior rank.

243. NEWSPAPER MANAGEMENT

(3) Turnbull

Problems of business organization, circulation, the handling of local, national, and classified advertising, office and composing room management, newspaper accounting, business promotion, financing the newspaper, and editorial policies in relation to management. Prereq., 105, and Acct. 75 and 76.

247. NEWSPAPER ADVERTISING AND LAYOUT

(3) Nichols, Turnbull

Departmental organization, solicitation technique, promotion, layout, copywriting, and typography pertaining to the retail, classified, national, and legal advertising departments of the newspaper. Agency organization and operation. Prereq., Advt. 155.

248. ADVERTISING PRODUCTION

(2) Turnbull

Study of mechanical, graphic, and creative methods of advertising production in relation to problem objective and cost; comparative analysis of lithography, letter-press, gravure, and other types of printing and poster work; relation of color, art work, type, media, and quality of paper to advertising purpose. Prereq., 247 or Advt. 232.

281. RESEARCH IN JOURNALISM

(2-8) The Staff

Special studies in one or more phases of journalism. Prereq., 18 hrs. in journalism and advertising.

395. THESIS

(4-8) The Staff

Prereq., permission.

LATIN—See Classical Languages

MANAGEMENT

Professors Armbruster, Gubitz Associate Professor Hellebrandt (chairman)

Instructor Franzolino

211. INDUSTRIAL MANAGEMENT

(3) Gubitz, Hellebrandt

The principles of the organization and the management of industrial enterprises, the management movement, and the newer principles and practices in functional factory organization. Prereq., Ec. 102.

212. ADMINISTRATION OF PERSONNEL

3) Gubitz, Franzolino

A comprehensive survey in the principles of the management of people in business organizations and institutions. Among the subjects treated are industrial government, employment management, accident and waste prevention, labor turnover, and similar topics. Prereq., 102.

221. TIME AND MOTION STUDY

(2) Gubitz

A study of the methods and apparatus used in achieving and perpetuating operation standardization. A study of time and motion of workers for the purpose of reducing fatigue and increasing production. Prereq., Mgt. 211.

271. BUSINESS POLICY

(3) Armbruster

A correlation of the work of other courses offered in commerce. Business problems of general administration rather than those of any special activity are considered. Prereq., Ec. 102 and senior rank.

281. RESEARCH IN MANAGEMENT

(2-8) The Staff

Special studies in industrial organization and scientific management. Prereq., 16 hrs. economics and/or commerce including Mgt. 211.

Additional courses:

Ec. 235-Labor Relations

Ec. 238-Labor Legislation

Stat. 171—Analysis of Statistical Data

Stat. 241—Business Cycles

Stat. 245—Forecasting

MARKETING

Professor Krauskopf

Associate Professor Paynter (chairman)

155. MARKETING PRINCIPLES

(3) Paynter, Krauskopf

The principles, methods, and policies of marketing consumers' goods and industrial goods.

158. MARKETING PROBLEMS

(3) Paynter

A consideration by the case method of the problems facing the producer and the middleman. Prereq., 155.

171. PRINCIPLES OF PERSONAL SELLING

(2) Krauskopf

The fundamentals of personal salesmanship and the problems involved in the relationship of the personal salesman to the sales organization. Prereq., 155.

176. SALES MANAGEMENT

(2) Krauskopf

Problems in the management of the sales organization and in some of the immediately related fields of management. Prereq., 155.

191. COOPERATIVE MARKETING

(2) Paynte

A survey of cooperative marketing in all the stages of distribution. Prereq., 155 or permission.

201. RETAIL SELLING POLICIES

(3) Paynter

The organization and operation of retail institutions. Prereq., 155 and Ec. 102.

202. RETAIL BUYING AND STOCK CONTROL

(3) Paynter

A study of buying, receiving, and stock control practices in retail stores. Prereq., 201.

205. PRINCIPLES OF FASHION MERCHANDISING

(3) Paynter

The relation of fashion in all kinds of merchandise to the production and distribution of merchandise. Prereq., 201.

211. RECENT TRENDS IN MARKETING AND SELLING Prereq., 155 and Ec. 102.

(3) Paynter

226. INDUSTRIAL PURCHASING AND INDUSTRIAL MARKETING (3) Paynter
The purchasing and selling of industrial goods. Prereq., 155 and
Ec. 102.

241. FOREIGN TRADE

(3) Paynter

A study of the theories of foreign trade and of the problems met by concerns engaged in importing and exporting. Prereq., Ec. 102.

246. FOREIGN MARKETS

(2) Paynter

A study of foreign markets from the point of view of the American exporter. Prereq., 155 and Ec. 102.

252. PROBLEMS IN SALES MANAGEMENT

(2) Krauskopf

An advanced course considering problems of sales administration and selling policies by the case method. Prereq., 158 or 171, 176, Ec. 102.

281. RESEARCH IN MARKETING

(2-8) The Staff

Research methods, market data, and methods of conducting market surveys. Prereq., 18 hrs. commerce, including 5 hrs. marketing, and permission.

391. SEMINAR IN MARKETING

(2-10) The Staff

Prereq., 18 hrs. commerce, including 5 hrs. marketing, and permission.

395. THESIS

(4-8) The Staff

Prereq., permission.

MATHEMATICS AND ASTRONOMY

Professors Reed,

Marquis (chairman), Starcher Associate Professor Goedicke

Instructor Boron

Acting Instructors S. S. Anderson, Armstrong, Badger, Bishop, Case, Crumley, Johnson

The major requirement in mathematics for the A.B. and the B.S. degrees consists of Math. 5, 6, 117, 118, and two other courses at least one of which shall bear a course number above 200.

I. ELEMENTARY ALGEBRA

(4) The Staff

A beginning course for students with no high school algebra.

2. INTERMEDIATE ALGEBRA

(3) The Staff

This course is intended for students who find their preparation inadequate for Math. 5, but who have had one year of algebra in high school. It consists of a review of the first year of high school algebra and those more advanced topics ordinarily considered in the second year of high school algebra. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school plane geometry.

3. PLANE GEOMETRY

(4) The Staff

A course for students with no high school geometry. Prereq., 1 or 1 yr. high school algebra.

4. SOLID GEOMETRY

(3) The Staff

Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry.

5. FRESHMAN MATHEMATICS

(5) The Staff

A review of high school algebra, the number system, the rational operations, coordinates and loci, functions and graphs, linear equations, quadratic equations, logarithms, trigonometry of the right triangle, trigonometric equations and identities, the oblique triangle, inverse trigonometric functions. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry.

6. FRESHMAN MATHEMATICS

(5) The Staff

Binomial theorem, progressions, the straight line, the circle, the conic sections, polar coordinates; a brief treatment of solid analytic geometry. Prereq., 5.

II. ELEMENTARY ASTRONOMY

(3) Goedicke

The motions of the celestial sphere and the principles of determination of time, latitude, and longitude from celestial observations. The distances, motions, and physical properties of the sun, moon, planets, comets, meteors, and meteorites. The principles of mathematics and physics needed in the course will be developed. 2 lec. and 2 lab. Prereq., 3, or 1 yr. high school algebra and 1 hr. high school geometry. Fee, \$4.

12. DESCRIPTIVE ASTRONOMY

(3) Goedicke

The basic principles of astronomical spectroscopy are developed and applied to the study of the distances, motions, physical properties, and probable evolution of the stars, the nebulae, and the galaxies. The principles of mathematics and physics needed in the course will be developed as required. 2 lec. and 2 lab. Prereq., 11. Fee, \$4.

34. MATHEMATICS OF FINANCE

(3) Marquis

A study of interest, annuities, sinking funds, valuation of bonds, capitalized cost, life insurance, and life annuities. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry.

105. COLLEGE GEOMETRY

(3) Margui

Problems of construction, loci, indirect methods, similar and homothetic figures, the triangle, medians, bisectors, altitudes, and transversals. Prereq., 6.

117. DIFFERENTIAL CALCULUS

4) The Staff

Variables, functions, limits, differentiation and its application to maxima and minima, differentials, curvature, and the theorem of mean value. Prereg., 6.

118. INTEGRAL CALCULUS

(4) The Staff

Integration, the definite integral, geometrical and physical applications of integration, series, expansion of functions, partial differentiation, multiple integrals. Prereq., 117.

125. ELEMENTARY STATISTICS

(3) Goedicke, Starcher

The common theory and methods used generally by investigators in widely different fields. The topics considered are: graphs, methods of computing the statistical constants, transformation of units, moments, the normal law, curve fitting, time series, trend and ratio charts, correlation, regression, and probablity. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry.

168m. TEACHING OF MATHEMATICS IN HIGH SCHOOLS (2-3) Crumley

(Same as Ed. 168m) An analysis of the basic ideas of algebra and geometry. Methods of presenting topics in these subjects to junior and senior high school students. Prereq., 6 and Psych. 5.

201. THEORY OF EQUATIONS

(3) Reed

The roots of unity, theorems on the roots of an equation, construction of roots with ruler and compasses, isolation of real roots, numerical solutions, determinants, systems of linear equations, and symmetric functions. Prereq., 6.

204. ADVANCED CALCULUS

(3) Reed

Particular subjects in the differential and integral calculus: expansion into series, Taylor's series, definite integrals and their applications to double and triple integrals, line integrals, and some vector analysis. Prereq., 118.

208. PROJECTIVE GEOMETRY

(3) Marquis

A study of the elements, primitive forms, duality, projectively related forms, curves and ruled surfaces of the second order, Pascal's and Brianchon's theorems, poles and polars, and the theory of involution. Prereq., 6.

215. DIFFERENTIAL EQUATIONS

3) Marquis

The formation of a differential equation, types of equations solvable by a transformation, linear equations, integration in series, simultaneous linear equations, and differential equations from mechanics and physics. Prereq., 118.

217. VECTOR ANALYSIS

(3) Reed

The elements of vector algebra, the elements of vector calculus, scalar and vector fields, linear vector functions and dyadics, and general coordinates and associated transformation theory. Prereg., 118.

311-312. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE

(3) Marquis, Starcher

Prereq., 201 and 215.

395. THESIS

(4-8) The Staff

Prereq., permission.

MILITARY SCIENCE AND TACTICS

Colonel Cavenee Major Faught Captains Lynch, Treat, Houston First Lieutenant Skinner

1, 2. ELEMENTARY COURSE

(2) Lynch, The Staff

Leadership, drill, and exercise of command; a study of individual weapons and a marksmanship course terminating in range firing; a general study of the National Defense Act; world military situation, and military organization; conference and practical work in hygiene and first aid; sufficient study of the fundamentals of map reading and aerial photographs to provide a working knowledge of the subject. 3 hours a week.

101, 102. ELEMENTARY COURSE

(2) Lynch, The Staff

Purpose of all parts of this course is to promote small unit leadership. Leadership, drill, and exercise of command emphasizing leadership; conferences on the evolution of warfare to show how development of new weapons has been brought about by modern warfare; a general study of the present world military situation; a study of military law and boards sufficient to conduct a mock trial; a continuing study of use of maps and aerial photographs; a course in army physical training and athletics sufficient to enable students to act as instructors; basic groundwork of keeping small unit records and conducting military correspondence is included in military administration. 3 hours a week. Prereq., 1, 2.

121, 122. ADVANCED INFANTRY

(3) Cavenee

Tactics and technique of infantry; to include communications (materiel and nets); technique of fire and fire control. A study of the theory of direct fire; tactical use of organic motor transportation; detailed study of organization of the infantry; tactics, the application of tactical principles by practical work; the military team, reasons for make-up and coordination required; troop movements, a study of administrative and tactical movements. Five hours a week. Prereq., 2 years of elementary courses or 1 year of active duty.

121, 122. ADVANCED AIR CORPS

(3) Faught, Treat, Houston

A course to provide training in branch material subjects for first year advanced air ROTC students; to give them, as potential officers, a background in the history and functions of the Army air forces and its component parts.

The course will include the history of progress, achievements and evolution of military aviation from 1892 through World War II and training in the functions of the air force such as: administration; personnel management; statistical control, to include time series analysis, personnel logistics, and computation of rations; communications, to include radar; aeronautics, a study of aerodynamics; transportation, both civilian and military; navigation, celestial and radio; and a constant study of the latest weapons of war such as guided missiles; supersonic

aircraft; atomic weapons; biological warfare. Five hours a week. Prereq., 2 years of elementary courses or 1 year of active duty.

121, 122. ADVANCED QUARTERMASTER

(3) Skinner

A study of the organization, mission, functions and responsibilities of the quartermaster corps. Background of Army supply system is presented and training given in purpose and tools of accounting for public property. Ability to read, understand and apply publications as authority for issue of supplies and equipment is stressed. Students study the supply organization of post, camp and station; and learn principles of property adjustment. Relation of United States Civil Service Commission to War Department is studied. Five hours a week. Prereq., 2 years of elementary courses or 1 year of active duty.

121, 122. INFANTRY, AIR CORPS, AND QUARTERMASTER

These subjects are common to all first year advanced courses. Military leadership, psychology and personnel management, a study of leadership; military problems of United States, the United States position in world affairs as affected by geography, economics, armed forces, the United Nations, industrial power, and treaties; occupied territories, belligerents' rights and responsibilities, initial occupation to return to civilian control; military law and boards, legal status, organization, functions and duties of personnel. Leadership drill and exercises, command, practical application of leadership in command of troops.

151, 152. INFANTRY

(3) Cavenee

Communications, continuation of first year advanced; gunnery, including indirect laying; new developments since past year; supply-classes, channels to include battalion; special operations and relationship of combat orders and terrain appreciation to tactics; troop movements to include the battalion. Five hours a week. Prereq., 121, 122.

151, 152. ADVANCED AIR CORPS

(3) Faught, Treat, Houston

This course will not be offered before the first semester of 1947-1948. Subjects to be included will be announced at a later date.

151, 152. ADVANCED QUARTERMASTER

(3) Skinner

Concept of fiscal procedures, including commitments, obligations, expenditures; students will gain knowledge of functions of procurement in chain of supply; understanding of inspection procedures both at origin and destination for quantity, quality, and condition; training films present correct storage procedure of different types of supplies and illustrate types and uses of materials-handling equipment; students are taught importance and scope of salvage activities in Zone of Interior and Theater of Operations; depot stock control and operations are studied more thoroughly. Five hours a week. Prereq., 121, 122.

151, 152. INFANTRY, AIR CORPS, AND QUARTERMASTER

These subjects are common to all second year advanced courses: Military teaching methods; command and staff, purposes of staff organization and practical work; psychological warfare in history of war; geographical foundations of national power; application of leadership in the field; combined and joint operations; mobilization, planning and mechanics of demobilization.

Music 235

MUSIC

Associate Professors Robinson, Ingerham
Associate Professors Danielson, Fontaine
Assistant Professors Kresge, Benedict, Longstreet,
Roach, Blayney, Peterson, Thackrey, Morley
Instructors Witzler, Clark, Chiarappa, Martino, Koivisto, E. J. Moore
Acting Instructor Rice

APPLIED MUSIC

VOICE (1-3) Robinson, Benedict, Roach, Peterson Fee, \$15 per semester hour. Practice room fee, \$2 for each credit hour.

PIANO (I-3) Fontaine, Kresge, Longstreet, Clark, Chiarappa, Koivisto Fee, \$15 per semester hour. Practice room fee, \$2 for each credit hour.

ORGAN (1-3) Kresge

Private instruction in organ requires a background of pianistic ability equivalent to four semesters of credit. Fee, \$15 per semester hour. Practice room fee, \$7 for each credit hour.

STRINGED INSTRUMENTS

(1-3) Ingerham, Rice

Private instruction in violin, viola, violoncello, and double bass. Fee, \$15 per semester hour. Practice room fee, \$2 for each credit hour.

WIND INSTRUMENTS (Wood)

1-2) Witzler

WIND INSTRUMENTS (Brass)

(1-2) Martino, Thackrey, Moore

Fee, \$15 per semester hour. Practice room fee, \$2 for each credit hour.

PERCUSSION INSTRUMENTS

(1-2) Martino

Fee, \$15 per semester hour. Practice room fee, \$2 for each credit hour.

ENSEMBLE

(1) The Staff

Participation in the playing or singing of ensemble arrangements of classic and modern compositions.

UNIVERSITY BAND

(I) Martino

Open to men and women students. Two hours a week are required in practice under the band leader.

UNIVERSITY VESTED CHOIR

(1) Robinson

An organization of mixed voices composed of the best vocal talent on the campus. The repertoire is confined to the highest type of vocal literature both a cappella and accompanied. Limited to 40 members.

UNIVERSITY GLEE CLUB, MEN Limited to 36 members.

(1) Peterson

UNIVERSITY GLEE CLUB, WOMEN Limited to 36 members.

(1) Robinson

UNIVERSITY SYMPHONY ORCHESTRA

(I) Ingerham

Open to men and women students.

SALON ORCHESTRA

(1) The Staff

A group of instrumentalists organized for the purpose of studying compositions for chamber orchestra; radio ensemble techniques; accompaniments. Open to men and women students.

CHORUS

(I) Robinson

Program material includes chorales, madrigals, and other choral forms.

331. APPLIED MUSIC, VOICE (1-10) Robinson, Benedict, Roach, Peterson Fee, \$15 per semester hour. Practice room fee, \$2 for each credit hour. Prereq., 18 hrs. voice and permission.

333. APPLIED MUSIC, PIANO

(1-10) Fontaine, Longstreet

Fee, \$15 per semester hour. Practice room fee, \$2 for each credit hour. Prereq., $18\ hrs.$ piano and permission.

335. APPLIED MUSIC, ENSEMBLE

(1-10) The Staff

Fee, \$15 per semester hour. Prereq., 18 hrs. in major and permission.

337. APPLIED MUSIC, STRINGED INSTRUMENTS

(1-10) Ingerham

Fee, \$15 per semester hour. Practice room fee, \$2 for each credit hour. Prereq., 18 hrs. in chosen instrument, and permission.

339. APPLIED MUSIC, WOODWIND INSTRUMENTS

(1-10) Witzler

Fee, \$15 per semester hour. Practice room fee, \$2 for each credit hour. Prereq., 18 hrs. in chosen instrument, and permission.

341. APPLIED MUSIC, BRASS INSTRUMENTS

(1-10) Martino

Fee, \$15 per semester hour. Practice room fee, \$2 for each credit hour. Prereq., 18 hrs. in chosen instrument, and permission.

395. RECITAL

(4-8) The Staff

Prereq., permission.

APPRECIATION AND HISTORY

5-6. MUSIC APPRECIATION

(2) Benedict

A study of the form and meaning of musical masterpieces and some acquaintance with the composers represented, looking toward more intelligent listening and cultural enjoyment. Music vocabulary. The phonograph is used for illustrative purposes. Not open to students who have had Mus. 7.

131. BACKGROUND FOR MUSIC CRITICISM

2) Fontaine

For journalism students; open to others by permission. Designed to prepare the student for reporting music programs.

Music 237

137. THE LITERATURE OF VOCAL MUSIC

(2) Benedict

A survey of representative literature from the fields of oratorio, choral music, and the art song with its background of the folk song. Illustrated with recordings of the great arias and most famous art songs by great singing artists.

138. THE LITERATURE OF ORCHESTRAL MUSIC

(3) Ingerham

The development of orchestral literature from the classic through the contemporary.

139. THE EVOLUTION OF THE OPERA

(3) Roach

A survey of the growth of opera as we know it today, including a study of libretti and the great personalities associated with it either as composers or artists. Illustrated by the Capehart phonograph. Prereq., 6 or F. A. 123.

140. DEVELOPMENT OF THE PIANOFORTE AND ITS LITERATURE (2) Fontaine

Since the literature for the pianoforte is so voluminous and important, it is considered advisable to offer the student an opportunity to hear a series of lectures. Those electing this course are not required to be pianists. The course is a comprehensive study of the instrument, the primary musical forms adapted to it, and the representative composers.

141. HYMNOLOGY

2) Benedic

A study of the history and development of the hymns of the Protestant churches, beginning with Martin Luther.

211-212. MUSIC HISTORY

(2) The Staff

A survey of the growth and development of all forms of vocal music from the monadic period up to the twentieth century era, with emphasis upon conditions influencing expression. The greater composers are studied in reference to their contributions and characteristic styles. Mus. 212 traces the development of instrumental music. Open only to music majors. Prereg., 6, and F. A. 124.

311. MUSICOLOGY

(2) Benedict

The music of the eighteenth century. A detailed study of the backgrounds in literature, general history, social customs, and the fine arts of the classic period, special attention to Haydn and Mozart. Prereq., 212 and Hist. 1, 2.

312. MUSICOLOGY

(2) Benedict

Beethoven. An intensive study of the major works of the great master and biographical survey of his life. Prereq., F. A. 123 and Hist. 1, 2.

313. MUSICOLOGY

(2) Benedict

Richard Wagner and the music drama. The social, economic, and political conditions of nineteenth century Germany as reflected in the life of Wagner. The fruition of romantic tendencies in the Wagnerian drama are considered in comparison with nineteenth century opera. *Tannhauser*, part of the *Ring* and *Die Meistersinger* are studied. This course alternates with Mus. 311. Prereq., 212 and Hist. 1, 2.

314. MUSICOLOGY

(2) Benedict

Twentieth century trends. A study of the impressionism of Debussy and its influence. The motivation of the modernists, Scriabin, Stravinsky, and Schoenberg. America's contribution. This course alternates with Mus. 312. Prereq., 212 and Hist, 1, 2.

395. THESIS

(4-8) The Staff

Prereq., permission.

Additional course:

F. A. 123, 124—History of Music

THEORY

3-4. EAR TRAINING AND SIGHT SINGING

(2) Blayney

Study of tone and rhythm, gaining power to recognize by ear, visualize and write intervals and melodic phases in all keys. 4 hrs. a week.

26. ELEMENTS OF MUSIC

(I) Witzler

An elective course for students other than music majors who wish to obtain a reading knowledge of music: notation, meter, rhythm, scales, key signatures, etc. 1 lec.; lab as required.

103-104. EAR TRAINING AND SIGHT SINGING

(2) Blayney

Advanced melodic and harmonic dictation involving intricate rhythms and altered chords. More difficult sight reading of vocal and instrumental forms, stressing the underlying harmony. Study of form. 4 hrs. a week. Prereq., 4, with a minimum grade of C.

105-106. HARMONY

(2) Kresge

Formation of major and minor scales, intervals, triads in open and close position, harmonizing melodies and figured basses, seventh chords and their inversions, chord of the ninth on the dominant, modulation to related keys. 3 hrs. a week. Prereq., 4. Fee, private instruction \$16. No fee for class work.

107-108. KEYBOARD HARMONY

(I) Fontaine

Playing of triads, dominant seventh and arpeggios. Harmonization of melodies in four-voice harmony and in full piano style. Improvisation of melodies with accompaniment in phrase and period form, transposition. Prereq., 106.

III-II2. HARMONY

(2) Kresge

Altered and mixed chords, borrowed tones, modulation, non-chord tones, harmonizing melodies and figured basses, original work. Prereq., 106. Fee, private instruction \$16. No fee for class work.

113-114. ANALYSIS AND FORM

(2) Robinson

Harmonic and structural analysis of music compositions; the rondo forms, minuet, classical and modern suites, variation form, fugue, sonata, etc. Prereq., 106.

115-116. COUNTERPOINT

2) Fontaine

Single counterpoint in all species, in two, three, or four parts. Mus.

Music 239

116 develops motive, double counterpoint, free writing on original themes. Prereq., 106.

129. MELODY WRITING

(1) Robinson

A study of the principles involved in melodic construction. Open to anyone who can meet the prerequisite requirements and who has a normal harmonic sensitivity. 2 lab. Prereq., pianoforte 2 hrs. or the equivalent, and permission.

130. ENSEMBLE CONDUCTING

(1-6) Robinson, Ingerham, Martino

An opportunity for study and practical experience in either choral or instrumental conducting. Stress on the use of the baton, attack, release, control, phrasing, and other phases of foundational requirements. Interpretative studies in chorals, anthems, partsongs, and the oratorio, opera, and symphony. Prereq., 2 yrs. university piano and theory courses or permission. Fee, for a major in the course \$24.

133-134. INSTRUMENTATION

(2) Martino

A study of the various orchestral instruments from the standpoint of their range, tonal character, technical limitations, and orchestral uses. Prereq., 106.

152. TECHNICAL PROBLEMS IN WOODWIND INSTRUMENTS (!) Witzler

Practical demonstrations on flute, oboe, clarinet, and bassoon showing the problems of good and faulty manipulations. This course deals in reed selection, finger articulations, embouchure, the mouthpiece, and proper sound production. Students are shown how to analyze and to correct faulty playing. 2 lab. Prereq., 166w and 3 hrs. on a woodwind instrument.

207-208. ARRANGING AND SCORING FOR BANDS (2) Martino

In this course the woodwind, brass, and percussion instruments including the saxophones, sarrusophones and other resources occasionally used, receive special attention from the aspects of their specialized use in scoring for the modern military and symphonic band. Arranging from vocal, piano, and organ music; addition of extra parts to thinly scored compositions; omission of parts from thickly scored compositions; cueing and substitutions of instruments. Orchestral transposition problems and transcribing orchestral music for symphonic band. Projects in original scoring. Prereq., 104, 114, and 134.

213-214. ORCHESTRATION

(2) Martino

A study of the string quartet, the string trio, the string quintet; strings with pianoforte, strings with wind instruments, and larger combinations; writing for small, medium, and full orchestra; choral, organ, and pianoforte transcriptions; projects in scoring original compositions for orchestra. Prereq., 114 and 134.

215-216. HARMONY

(2) Kresge

A study of the evolution of harmony up to and including Wagner. Modulation; original work. Comparison and examination of harmony textbooks. Prereq., 112, 114, and 2 yrs. aural theory.

217-218. COUNTERPOINT

(2) Fontaine

The multiple forms of counterpoint. Double and triple counterpoint with and without free parts. Special attention is given to the *Inventions* and *Partitas* of Bach. Students write short, original compositions in the contrapuntal style for organ or piano, trios for piano and strings or woodwinds, as well as simpler forms for string quartet. Prereq., 116.

219-220. MUSIC COMPOSITION

(2) Robinson

Correlation of the harmonic and contrapuntal principles. Comparison of the rhetorical principles of music and poetry. Original writings in the more simple forms. Prereq., 116 and an average of B in aural theory.

284. RESEARCH IN MUSIC

(2-4) Fontaine

A project course in which the student selects, under the guidance of the instructor, subjects for special investigation and written reports Prereq., 30 hrs. or the equivalent, and 12 hrs. English.

305-306. HARMONY

(2) Kresge

A study of the new methods of chord structure in modern harmony, polytonality, atonality, analysis, and original writing. Prereq., 216.

309-310. CANON AND FUGUE

(2) Fontaine

A critical study of the classic canon in all its forms. Complete familiarity with the *Well-Tempered Clavichord* is expected. A fully developed original fugue in four voices is necessary for credit. Prereq., 218 and permission.

325-326. MUSIC COMPOSITION

2) Robinson

Extensive writing in the vocal and instrumental forms. The use of modern harmonic principles. Prereq., 220.

327-328. ADVANCED ORCHESTRATION

(2) Martino

Problems in scoring original works and arranging for the modern symphony orchestra. Satisfactory scores are performed by the University Symphony Orchestra. Students are required to attend an assigned number of orchestra rehearsals. The class work includes criticism of each student's work. Prereq., 116 and 214.

395. THESIS

(4-8) The Staff

Prereq., permission.

SCHOOL MUSIC

71. INTRODUCTION TO SCHOOL MUSIC

(2) Danielson

A general orientation course to meet the needs of the classroom teacher in elementary education. Through class performance and listening, as well as a study of material used in concert and good radio programs, music appreciation as related to everyday life is developed. Emphasizes the relation of music to geography and history, as well as the fine arts. 2 lec. and 1 lab.

72. MUSIC FUNDAMENTALS

(2) Blayney

A course involving theory, ear training, tone production, and sight singing of unison and part songs. 3 hrs. a week. Prereq., 71.

Music 241

166b. TEACHING OF INSTRUMENTAL MUSIC

(3) Ingerham

(Same as Ed. 166b) Methods of organizing and conducting classes in instrumental music, with a survey of materials. Problems of organizing bands and orchestras.

166d. TEACHING OF DANCES AND GAMES

(1) Danielson

(Same as Ed. 166d) Dances and games for grades 1 to 8 and methods of presentation.

166e. TEACHING OF MUSIC IN ELEMENTARY GRADES (Same as Ed. 166e) Prered., 72.

(2) Danielson

166f. TEACHING OF MUSIC IN FIRST SIX GRADES

(3) Danielson

166; TEACHING OF MUSIC IN JUNIOR AND SENIOR HIGH SCHOOLS

(3) Danielson

(Same as Ed. 166j)

(Same as Ed. 166f)

166p. TEACHING OF CLASS PIANO

(I) Blayney

(Same as Ed. 166p) Class instruction in piano covering the first two years of work outlined by the Oxford Piano Course. Participation in classroom teaching and survey of teaching materials. 2 hrs. a week. Prereq., the equivalent of 2 hrs. piano.

166r. TEACHING OF PERCUSSION AND PREBAND INSTRUMENTS (1) Thackrey

(Same as Ed. 166r) A. Mastery of rhythm as a foundation to good musical performance, based upon the technique of the snare drum. Principles presented and demonstration given in playing other percussion instruments. B. Consideration of preband instruments and their use in the music program of the elementary school. 2 hrs. a week. Fee, \$1.

166s. TEACHING OF CLASS STRINGED INSTRUMENTS [1]

(1) The Staff

(Same as Ed. 166s) Elementary class instruction in instruments of the string choir in a situation similar to that met in schools. No previous knowledge of the stringed instruments is required. 2 hrs. a week. Fee, \$1.

166v. TEACHING OF CLASS VOICE

(I) Blayney

(Same as Ed. 166v) The aim of this course is to develop better choral singing in the schools through the improvement of the individual voice: collective security in pitch, uniformity in vowelization, reconciliation of vocal fundamentals with musical expression. 2 hrs. a week.

166w. TEACHING OF WOODWIND INSTRUMENTS

11 Witzle

(Same as Ed. 166w) The teaching of the clarinet. Techniques of position, breathing, tone production, the care of woodwind instruments, and the like. Principles discussed and demonstration of other principal instruments of this family. Classroom procedures in use of woodwinds in the elementary school. 2 hrs. a week. Fee, \$1.

166z. TEACHING OF CLASS BRASS INSTRUMENTS

(1) Martino

(Same as Ed. 166z) The teaching of the trumpet. Techniques of position, correct position, embouchure, fingerings, the care of brass instruments, and the like. Principles discussed and demonstration of other

principal instruments of this family. Classroom procedures in the use of brasses in the elementary school. In the latter part of the course, work will be given in brass and woodwind ensemble. 2 hrs. a week. Fee, \$1.

171. MUSIC MATERIALS AND SYSTEMS

(2) Blayney

A survey of materials and music systems in general use. An emphasis on choral literature. Prereq., 6 hrs. music teaching techniques.

173. CONDUCTING

(I) Daniels

Conducting technique developed. A study of qualities and habits essential to a good conductor. Individual practice in conducting choral material appropriate for use in the junior and the senior high schools. 2 hrs. a week.

174. CONDUCTING

(1) Ingerham

Technique and score reading, orchestral conducting, and band conducting. Material suitable for use in the junior and senior high schools considered. Standard symphonies and overtures are conducted in laboratory with the Campus Orchestra. 2 hrs. a week. Prereq., 173.

175. MUSIC APPRECIATION FOR GRADE TEACHERS (1-2) Blayney, Danielson Experience in hearing and identifying good music. Appreciation material and effective methods for its presentation.

177. APPRECIATION IN MUSIC EDUCATION

(3) Danielson

To familiarize students with the best material available for use in the elementary grades and high schools and methods of procedure in developing appreciation. Fee, \$3.

233. CONTEMPORARY TRENDS IN MUSIC EDUCATION

(2) The Staff

Procedures in the evaluation of methods and materials and how to modify them to meet the present music situation. Special topics for research and discussion to meet the needs of individual students. Prereq., 166j and permission.

273. MUSIC TESTS AND MEASUREMENTS

(2) Morley

A study of educational measurements in the field of music. Experimental studies by scientific investigators; the newer movements in evaluating musical talent and accomplishment in school music are reviewed. 2 lec., lab. as required. Prereq., 104, 166j, and Psych. 5.

274. PRACTICAL ACOUSTICS FOR THE MUSIC TEACHER (2) Thackrey

A continuation study of the physical laws underlying the art of music and the facts and theories upon which these are based. This course is designed to cover practicularly those phases of quality and resonance, scales and intervals, musical instruments and the voice, which are not considered in general physics. A careful consideration of musical properties and their correlation with the physical requirements of the music classroom, practice room, and ensemble rehearsal room. 2 lec., lab. as required. Prereq., 104, E. E. 205, 3 hrs. piano, and 3 hrs. voice.

275. ADVANCED CONDUCTING

(1-2) The Staff,

Development of the capacity to interpret the larger forms of choral

and instrumental literature. Emphasis on tempo, phrasing, nuance, dynamics, and balance. Prereq., 174 and permission.

371-372. PROBLEMS IN THE SUPERVISION OF MUSIC (2) Danielson, Blayney Investigation of problems connected with teaching and the supervision of music encountered during service. Students will be given opportunity for practice in supervision, and for research in some of the new and unsolved problems in the teaching of music. 2 lec., lab as required. Prereq., 166f, 166j, 171, 177, 2 hrs. observation, and 4 hrs. student teaching.

395. THESIS

(4-8) The Staff

Prereq., permission.

PAINTING

Professors Mitchell, Way Associate Professors Willis, Work Instructor Calkin

28. FIGURE DRAWING

(1-6) Calkin

A study of the human figure with emphasis on proportion and structure. Indicated for students interested in costume design. 2 lab. Fee, \$1 per credit hour.

45-46. METHODS IN REPRESENTATION

(2) Mitchell

Linear representation of form. Visual perspective with emphasis on theory. 2 lec. and 2 lab.

71. SKETCHING

(2-4) Way

Quick sketches from life including action and still poses of figures and animals, out-of-door sketching, and contour drawing of objects. 1 lec. and 3 lab.

75. REPRESENTATION

(3) Mitchell

Practice in methodical representation in light and shadows. Pencil, crayon, charcoal, wash, pen, and dry brush. 1 lec. and 5 lab. Prereq., 46.

76. DEPTH

(3) Mitchell

Methodical practice with color variations in depth. Indicated for those interested in painting. 1 lec. and 5 lab. Prereq., 75.

117. FORM AND COMPOSITION

(3) Willis

Modern compositions in dark and light and in color using different media. 2 lec. and 4 lab. Prereq., 12 and 45.

118. WATER COLOR

(3) Work

Experience in painting in the studio and out-of-doors. 2 lec. and 4 lab. Prereq., 8 hrs.

135, 136. CARICATURE

(2) Calkin

Application of principles of drawing toward commercial cartooning 1 lec. and 3 lab. Prereq., 75 or permission.

205. PAINTING

(2-10) Mitchell

Practical applications of theories and methods of representation in color mediums. Not more than three hours may be taken in one semester. 3 lab. per credit hour. Prereq., 76.

209, 210. PRINTS

(3) Work

Problems in monotypes, linoleum and wood blocks, Provincetown wood blocks, etching, aquatint, dry-point, lithography, and other related subjects. 2 lec. and 4 lab. Prereq., 12 hrs.

211. FORM IN MODERN PAINTING

(2-3) Willis

Foundations in the principles of form. Problems developed in oil colors. 1 lec. and 3 lab. Prereq., 12 hrs. including 45 and 117, or permission.

215. ADVANCED FORM AND COMPOSITION

(2-4) Willis

Advanced problems in modern composition. 4-8 lab. Prereq., 12 hrs., and permission.

219-220. ADVANCED WATER COLOR

(2-3) Work

A study of current tendencies in painting. 1 lec. and 3-5 lab. Prereq., 10 hrs. including 118.

228. LIFE DRAWING

(1-6) Calkin

Principles of representation applied to the human figure through the use of anatomical charts, the skeleton, and the model. 2 lab. per credit hour. Prereq., 12 hrs. including 28 and permission. Fee, \$4 per credit hour.

241. ADVANCED PAINTING

(2-10) Mitchell

Practical problems involving advanced techniques. 3 lab. per credit hour. Prereq., 205.

331. ADVANCED PICTORIAL COMPOSITION 9 lab. Prereq., 241 and permission.

(3) Mitchell

1,

336. DECORATIVE COMPOSITION9 lab. Prereq., 20 hrs. and permission.

(3) Mitchell

393 SEMINAR IN PAINTING

(1-5) The Staff

Prereq., 20 hrs. and permission.

395. THESIS

(4-8) The Staff

Prereq., permission. Fee, \$1 per credit hour.

For allied courses see:

Art History, page 156.

Design, page 171.

Sculpture, page 269.

PHILOSOPHY

Professors Gamertsfelder, Houf (chairman), Martin Assistant Professor Adams Acting Assistant Professor Baker Acting Instructor Knox

Courses in philosophy and religion are open to students throughout the university. They may be taken for either a major or a minor in the College of Arts and Sciences. The courses in reasoning and logic are mainly studies in how to think. Most of the others are more concerned with what to think. The courses numbered 85 and 87 may be taken to meet the University College requirement in the area of humanities.

81. PROBLEMS OF RELIGION

(1-3 as scheduled) Houf

Deals with some of the major religious and moral problems which perplex present-day youth. Selected problems are treated in lectures, readings, and class discussion.

82. INTRODUCTION TO THE BIBLE

(1-2 as scheduled) Houf

Considers the kinds of books in the Bible, their background and purposes, a sketch of the main ideas, and some methods of Bible study.

85. PRINCIPLES OF REASONING

(3) Martin

A "general education" course concerned with the conditions and principles of correct thinking. Some of the main fields of knowledge are defined and related in terms of the kinds of evidence and methods that are peculiar to each, with special emphasis on the methods of the natural sciences and the social studies. The nature of common fallacies is considered in order that the student may have a better understanding of the meaning of responsible statement and belief.

87. LIFE'S MEANING AND MORAL PHILOSOPHIES

(3) Houf

Problems connected with the business of living in this century are considered from an ethical viewpoint. Class discussion and readings take account of the present scientific and social background. The main moral philosophies are compared. As a "general education" course for freshmen and sophomores, it aims to aid in forming a personal philosophy of life on a broad cultural basis.

100. GENERAL ETHICS

(3) Martin

Considers the development of moral ideas, the historical ethical theories, and a constructive moral philosophy, including class discussion of the chief personal and social problems of current life.

101. INTRODUCTION TO NEW TESTAMENT THOUGHT

(3) Houf

The social and religious background and the development of the New Testament writings. Study of the teachings of Jesus and Paul and the other important types of New Testament thought.

102. INTRODUCTION TO OLD TESTAMENT THOUGHT

(3) The Staff

A study of the content and development of Hebrew thought, including early tradition, the ideals of the prophets, legal formalism, Jewish philosophizing, devotional writings, and the Messianic hope.

103. INTRODUCTION TO PHILOSOPHY

(3) The Staff

A study of principles and meanings as found in the sciences, morals, religion, and art. The course aims to put the student in possession of the fundamental ideas necessary for forming a satisfactory philosophy of life. Not open to students who have had Phil. 105.

105. BRIEF INTRODUCTION TO PHILOSOPHY

(2) The Staff

An abbreviation of Phil. 103 for students who desire a shorter course in the subject. Not open to students who have had Phil. 103.

107. THE WORLD'S GREAT RELIGIONS

(2-3 as scheduled) The Staff

A historical and comparative treatment of the origins, literature, beliefs, practices, and values of the great religions of the world, including both the Orient and the Occident.

109. LOGIC

(2-3 as scheduled) The Staff

A study of the principles and methods of sound reflective thinking as applied in the special sciences, in oral and written exposition, and in argumentation generally. Prereq., junior or senior rank.

III. BUSINESS AND PROFESSIONAL ETHICS

(2) Houf, Martin

The place of business and professional organizations in society; study of the ethical practices and standards in the business world and in some professions. Prereq., junior or senior rank.

113. AMERICAN THOUGHT

(2-3 as scheduled) The Staff

The thought movements in American history, with a view to explaining the philosophical background of our literature, social institutions, and national character. Prereq., 3 hrs.

117. SOCIAL AND POLITICAL PHILOSOPHY (2-3 as scheduled) Houf, Martin

After study of the political philosophies recently dominant in Germany, Italy, and Russia, analysis is made of the philosophy and practice of liberal democracy as in the United States. Upon a realistic view of contemporary institutions in theory and practice, is built a constructive philosophy of social democracy.

201. HISTORY OF IDEAS: ANCIENT AND MEDIEVAL

(3) The Staff

A historical introduction to the ideas and systems of thought which have been influential in the development of human cultures in the West; the relation of these ideas to the growth of the natural sciences and the changes in social theory. Prereq., 6 hrs., or 3 hrs. and 6 hrs. in one social science, or 3 hrs. and 12 hrs. English.

202. HISTORY OF IDEAS: MODERN

(3) Martin

A history of the thought of some of the most influential of modern thinkers with special reference to cultural developments, including the Renaissance, the rise of Protestantism, science and religion, Marxism, and Humanism. Prereq., 6 hrs., or 3 hrs. and 6 hrs. in one social science, or 3 hrs. and 12 hrs. English.

204. ADVANCED SOCIAL PHILOSOPHY

(2-3 as scheduled) Martin

An inquiry into the philosophy of social institutions and social programs. The competing political philosophies of our time, with their

meanings for the state, economic activities, education, and general culture. Emphasis upon the problems of democracy. Not open to students who have had Phil. 117. Prereq., 6 hrs., or 3 hrs. and 6 hrs. in one social science.

206. CONTEMPORARY THOUGHT

(2) The Staff

The reading and discussion of selections from representative philosophers of the present and recent past. Acquaintance is made with the leading schools and movements in present-day philosophy. Prereq., 6 hrs.

208. THE HISTORY AND MEANING OF SCIENCE

2) Martin

This course aims primarily to acquaint the student with the meaning and methods of science as an element of human culture, present and past. Prereq., 6 hrs., or 3 hrs. and 12 hrs. natural science.

209. PHILOSOPHY OF RELIGION

(3) The Staff

The meaning of religion; the relation of religion to other aspects of culture; Christianity and other religions; the existence and nature of God; prayer, the soul, and immortality; skepticism and faith. Prereq., 6 hrs.

210. MINOR STUDIES IN PHILOSOPHY

(1-6) The Staff

A critical study of selected types of philosophy, or an investigation of minor problems in the history of philosophy. Prereq., 6 hrs.

391. SEMINAR IN PHILOSOPHY

(2-6) The Staff

Especially assigned problems are treated or the writings of important philosophers are read and critically examined. Prereq., 15 hrs.

395. THESIS

(4-8) The Staff

Prereq., permission.

PHOTOGRAPHY

Assistant Professor Shipman Visiting Lecturer Peterich

77-78. ELEMENTARY PHOTOGRAPHY

(3) Peterich

A working knowledge of cameras, lenses, and accessories. Indoor and outdoor lighting and composition. Problems of exposure. Developing and printing methods, print quality. Finishing and mounting. Basic course required of all majors in photography. 2 lec. and 4 lab. Fee, \$2.

133. NEWS PHOTOGRAPHY

(2) The Staff

A working knowledge of cameras used in press photography and magazine illustration. Flashlight technique, copying and problems of reproduction, discussion of newspaper and magazine assignments. 1 lec. and 3 lab. Prereq., 77. Fee, \$3.

143-144. PHOTOGRAPHIC PROCESSES

(3) Shipman

History of photography; optics; cameras and accessories; photochemistry, including properties and characteristics of materials; chemical processing; negative processes. Photography in color. Required of majors in photography. 2 lec. and 3 lab. Prereq., 77 or permission. Fee, \$3.

145. WORKSHOP IN PHOTOGRAPHY

(2-6) Shipman

Individual assignments within the previous photographic experience of the student to provide a deeper understanding and greater working security and to develop the student's personal approach. The student is assisted in pictorial composition. 6 lab. Prereq., 78 and permission. Fee, \$1 per credit hour.

277-278. PORTRAITURE

(5) The Staff

Studio and home portraiture, including full figure and groups. Posing, lighting, and make-up. Retouching and finishing. Problems of approach to the sitter and client. Portrait studio operation. 2 lec. and 9 lab. Prereq., 78 or permission. Fee, \$5.

279-280. COMMERCIAL AND ILLUSTRATIVE PHOTOGRAPHY (5) Peterich

Photography as used in advertising: studio and outdoor illustration, fashion photography, the storytelling picture, color, advertising layout, and commercial retouching. The student is introduced to the problems of commercial studio operation and free-lance photography. 2 lec. and 9 lab. Prereq., 78. Fee, \$5.

281. ADVANCED WORKSHOP IN PHOTOGRAPHY

(2-6) Shipman

Individual assignments of advanced problems. 6 lab. Prereq., 277 or 279, and permission. Fee, \$1 per credit hour.

395. THESIS

(4-8) The Staff

Prereq., permission. Fee, \$1 per credit hour.

PHYSICAL WELFARE

Professor Bird

Associate Professors Hatcher, Trepp, LaTourrette Assistant Professors Druggan, Nessley, Rhoads Instructors Wilson, Bell, Phillips, Fall, Hoy See "Athletics" for Coaching Staff

MEN

I, 2, 3. PHYSICAL EDUCATION

(1) The Staff

Required of all freshmen. The course consists of vigorous activities, sports and obstacle course. Also includes health lectures. 3 hrs. a week. Fee, \$1.50.

6. PHYSICAL ACTIVITIES

(I) Rhoads

Required of all freshmen majors in physical welfare. The course consists of the theory and practice in the following activities: touch football, soccer, speed ball, tumbling and apparatus. 3 hrs. a week. Fee, \$1.50.

7. PHYSICAL ACTIVITIES

(1) Rhoads

Required of all freshmen majors in physical welfare. The course consists of the theory and practice in the following activities: marching, calisthenics, ranger exercises, grass drills, light apparatus, volleyball and softball. 3 hrs. a week. Fee, \$1.50.

9. 10. 11. ADAPTED ACTIVITIES

(1) Trepp

Students whose exercise should be restricted are assigned to activities adapted to their special needs. 3 hrs. a week. Prereq., medical permission. Fee, \$1.50.

117. ATHLETIC OFFICIATING

(2) Rhoads

A course designed to prepare students for athletic officiating in football and basketball. .

119. PHYSICAL ACTIVITIES

(2) Rhoads

Required of all junior majors in physical welfare. The course consists of the theory and the practice in the following activities: rhythmical activities, dual and individual sports and elementary school relay and mass games. 5 hrs. a week. Fee, \$1.50.

120. PHYSICAL ACTIVITIES

(2) Rhoads

Required of all junior majors in physical welfare. The course consists of the theory and practice in the following activities: personal combat activities, advanced tumbling and apparatus and secondary school relays and mass games. 5 hrs. a week. Fee, \$1.50.

133. THEORY AND PRACTICE OF ADAPTED ACTIVITIES

2) Trep

The principles and practice in the development of good postural habits, activities for the permanently disabled, and exercises for the underdeveloped and those with postural defects. Prereq., Zool. 123.

167e. ATHLETIC COACHING

(2) Athletic Staff

(Same as Ed. 167e) Includes baseball and basketball.

167f. ATHLETIC COACHING

(2) Athletic Staff

(Same as Ed. 167f) Includes track and football. Prereq., junior rank. Fee, \$1.50.

MEN AND WOMEN

18. LIFE SAVING METHODS

(1) Rhoads

Techniques included in the test for Senior American Red Cross Life Saving are covered in the course and the certificate is granted upon satisfactory completion of the required work. 3 hrs. a week. Fee, \$1.50.

20. INSTRUCTORS' LIFE SAVING METHODS

Rhoad

For students that have been certified as Senior American Red Cross Life Savers and wish to do advanced work in the skills and teaching techniques of water activity. The Instructor's Certificate is granted upon satisfactory completion of the required work. 3 hrs. a week. Fee, \$1.50.

102. PERSONAL AND COMMUNITY HEALTH

(3) Trepp

Provides a knowledge of the hygienic practices and an appreciation of the means whereby the health of the individual and of the group may be maintained.

123. ANATOMY AND KINESIOLOGY

(4) Elliott, Trepp

For course description, see Zool. 123.

127. FIRST AID

(2) LaTourrette

Application of the principles and practice of American Red Cross First Aid. The Standard Certificate is granted if requirements are met.

128. PHYSICAL THERAPY

(2) Olson, Wilson

Theory and practice of massage and physiotherapy. Prereq., Zool. 123. Fee, \$1.50.

141. PREVENTION OF DISEASE

(2) Druggan

This course deals with the nature, spread and control of disease.

150. COMMUNITY RECREATION

(3) LaTourrette

A practical course in planning and carrying out recreational activities. The first unit of work emphasizes party planning and activities for large groups. The second unit considers low cost crafts: simple wood carving, weaving, hand puppets, etc. A notebook is required. Fee, \$1.50.

151. PRINCIPLES OF HEALTH

(3) Druggan

This course deals with personal, school and community health; is designed especially for teachers, to assist them in carrying out health educational programs in their schools.

153. NATURE AND FUNCTION OF PLAY

(2) Bird

Play programs for schools, recreation centers, playgrounds and industry. Prereq., $6\ \mathrm{hrs.}$

167h. TEACHING OF HEALTH

(3) Trep

(Same as Ed. 167h) Instruction, principles and curricula used in presenting health information to children of the different school levels. Prereq., 102 and Zool. 123.

167D. TEACHING OF PHYSICAL EDUCATION

(1) Rhoads

(Same as Ed. 167p) Physical education for elementary and secondary schools. Not required of majors.

181. INTRAMURAL SPORTS

(2) The Staff

Theory and practice of minor sports and intramural organization.

204. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION (3) Hatcher, Rhoads

(1) A review of the history of physical education from the time of the Greeks, with emphasis on the development of various systems and their effects on our present day program. (2) The principles underlying physical education in our modern program of education. Prereq., Zool. 123.

206. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION

(2) Bird

Physical and health education in elementary and secondary schools, normal schools, and colleges. Athletic management, interscholastic, and intercollegiate athletics. Prereq., Zool. 123.

209. PHYSICAL ACTIVITIES TESTS

(2) Nessley and Staff

A theoretical and practical study of available tests and measurements. Tests and measurements are analyzed to determine their place, use and possibilities in the physical education program. Prereq., 10 hrs.

249. COMMUNITY RECREATION

(2) Nessley and Staff

A course for leaders and those interested in guiding, leisure time programs. Topics include: brief history of the play movement, programs and program making, general administration of playgrounds, community centers, and recreational activities. Prereq., 10 hrs., including 153.

252. PHYSICAL DIAGNOSIS

(3) Health Service Staff

A study of the fundamental deficiencies and defects characteristic of children that handicap normal physical, mental, and social development. A study of the techniques in conducting health examinations, clinical service, etc., Prereq., 15 hrs.

351. SCHOOL HEALTH PROBLEMS

(3) Trepp

A survey of the contents and relationship of the current problems in school health education. An opportunity for the investigation of specific problems and for the study of techniques.

391. SEMINAR IN PHYSICAL EDUCATION

(3) Bird and Staff

For students who desire to pursue special research or investigation in physical education. Reviews of current literature and discussions of physical activities. Prereq., 15 hrs.

395. THESIS

(4-8) The Staff

Prereq., permission.

WOMEN

The following courses satisfy the physical education requirement of four hours for graduation: Nos. 1 through 18, 20, 27, 35, 101 through 122, 131, 132.

1, 2. SPORTS

(1) The Staff

Activities are offered according to the season. Students may choose from field hockey, soccer, basketball, badminton, tennis, volleyball, gymnastics, and baseball. This course may be repeated if a different sport is taken. 3 hrs. a week. Fee, \$1.50.

3. BEGINNING SWIMMING

(I) Wilson

This course is for students who are afraid of water. Orientation to water, safety, skills, elementary strokes, and elementary forms of diving are taught. 3 hrs. a week. Fee, \$1.50.

4. INTERMEDIATE SWIMMING

(I) Wilson

Students who have passed the beginners' swimming tests at Ohio University, or at any beach or pool, may enter P. W. 4 classes. Also, any student without preliminary instruction who can swim free style in deep water for five minutes will be admitted. The elements of the elementary backstroke, crawl, back crawl, side stroke, breast stroke, plain diving and surface diving are taught. 3 hrs. a week. Prereq., 3, or equivalent experience in swimming. Fee, \$1.50.

6. ELEMENTARY TAP DANCING

(1) Phillips, Wilson

A course designed for beginners. 3 hrs. a week. Fee, \$1.50.

7-8. MODERN DANCE

(1) Phillips

Fundamentals of movement technique. An introduction to the concept of movement in relation to time, space (factors), and the factor of dynamics. 3 hrs. a week. Fee, \$1.50.

9, 10. ADAPTED ACTIVITIES

1) The Staff

For students with postural defects and students whose activities must be restricted because of health. 3 hrs. a week. Prereq., permission. Fee, \$1.50.

15. FOLK AND NATIONAL DANCING

(1) Hatcher, Wilson, Bell

The ability to dance in time with music is stressed. American square dances and European dances based on the schottische, polka, and waltz are taught. 3 hrs. a week. Fee, \$1.50.

16. FOLK AND NATIONAL DANCING

(I) Hatcher

A continuation of 15 using dances which involve more difficult steps. 3 hrs. a week. Prereq., 15, or dancing experience. Fee, \$1.50.

27. FUNDAMENTAL RHYTHMS (Summer Session Only)

(I) Phillips

Materials for various rhythmic activities at different grade levels. The activities and methods are adapted to meet the needs of the group. Fee, \$1.50.

35. SOCIAL AND COUNTRY DANCING

(I) Lalourrette

A recreational course for students who wish to learn how to dance. $3\ hrs.\ a$ week. Fee, \$1.50.

III, II2. ADVANCED SWIMMING

1) The Staff

This course is for those who had Junior or Senior Life Saving or have passed the Red Cross Swimmers' Test or its equivalent. Analysis and skills of the recognized and variation strokes are given. Efficiency in form and endurance are emphasized. 3 hrs. a week. Prereq., 4, 103, 104 or permission. Fee, \$1.50.

113. HIKING

(1) LaTourrette

Hikes are varied as to distance and places visited. First aid and rules of the road for hikers and practice in leading hikes are included. 3 hrs. a week. Fee, \$1.50.

114. CAMP CRAFT

(1) LaTourrette

This is a practical course in group work stressing skills necessary for outdoor living. Emphasis is placed on cooking, firebuilding, and construction of temporary equipment. One overnight hike is required. Given in alternate years. 3 hrs. a week. Offered 1947-1948. Fee, \$1.50.

115, 116. MODERN DANCE, ADVANCED

(1) Phillips

More complex coordinations and movement studies. Further study in the rhythmic, spatial, and dynamic bases of dance. Experimentation in form and composition. 3 hrs. a week. Prereq., permission. Fee, \$1.50.

121, 122. PHYSICAL ACTIVITIES

(2) LaTourrette

Individual sports technique, folk dancing, gymnastics, squad work in self-testing activities, tumbling and stunts. Fee, \$1.50.

125. THE ESSENTIALS OF GIRL SCOUTING (Not offered 1947-1948)

LaTourrette

A general introduction to the Girl Scout program. A weekend is spent at the local camp to give practical experience in conducting hikes and in doing outdoor cooking. Hobbies in handicraft and in nature, and recreational games and activities are emphasized. Given in alternate years.

126. SCOUTING PRACTICE

(I) LaTourrette

The course consists of actual participation as an assistant in one of the local troops. Prereq., 125.

131. MASS GAMES (Not offered 1947-1948)

(1) LaTourrette

A program of games that builds up skills for the highly organized sports of field hockey, soccer, basketball, softball and volleyball. Required of majors; recommended for elementary teachers. A notebook is required. Given in alternate years. 3 hrs. a week. Fee, \$1.50.

132. PHYSICAL EDUCATION PRACTICE

(I) LaTourrette

Practice of activities suitable for the elementary school. Given in alternate years. 3 hrs. a week. Offered 1947-1948. Fee, \$1.50.

133. THEORY OF ADAPTED ACTIVITIES

(2) Wilson

Concerned with the organization of reconstructive programs specifically adapted to the need of physically handicapped individuals. Abnormal conditions such as posture defects, cardiac defects, foot defects, dysmenorrhea, post operative cases, and certain orthopedic conditions are described and therapeutic exercises evaluated. Recreational games and sports suitable to specific conditions are also included in the program. Prereq., 123.

134. PRACTICE OF ADAPTED ACTIVITIES

(I) The Staff

Practical experience in working with physically handicapped individuals in classes of adapted activities. Prereq., 133.

135. MATERNAL AND CHILD HEALTH

(3) Druggan

The course deals with the normal biological and physiological processes of human reproduction together with the varied factors which contribute to abnormalities and mortality of both mother and child.

137, 138. DANCE PROBLEMS

1-2) Phillips

Composition of dance forms adapted to individual capacities, constructed and utilized. Directed readings on dance and related arts. Prereq., 115 or 116 and permission. Fee, \$1.50.

139. ATHLETIC OFFICIATING

(I) Hatcher, LaTourrette

Theory and practice of officiating field hockey, soccer, and basketball.

140. ATHLETIC OFFICIATING

(I) La lourrette

Theory and practice of officiating volleyball, baseball, and track.

142. CAMP LEADERSHIP

(2) LaTourrette

Emphasis is placed upon the responsibilities of counselors and program planning. Experience is given by assisting with camperaft class. Given in alternate years. Offered 1947-1948.

161. SEX HYGIENE

(2) Druggan

Nature; social significance of ills. Modern methods of control, both personal and public, educational and medical.

167a. TEACHING OF COACHING

(2) Hatcher, LaTourrette

(Same as Ed. 167a) Theory and practice of coaching field hockey, soccer, and basketball. Fee, \$1.50.

167b. TEACHING OF COACHING

(2) LaTourrette

(Same as Ed. 167b) Theory and practice of coaching volleyball, baseball, track and field activities. Fee, \$1.50.

167n. TEACHING OF RYTHMIC ACTIVITIES

(I) Phillips

(Same as Ed. 167n) Methods of teaching folk and tap dancing. Given in alternate years. Offered 1947-1948. Fee, \$1.50.

1670. TEACHING OF RHYTHMIC ACTIVITIES (Not offered 1947-1948) (1) Phillips (Same as Ed. 1670) Methods of teaching ballroom dancing and modern dance. Given in alternate years. Fee, \$1.50.

167s. TEACHING OF SWIMMING

(2) The Staff

(Same as Ed. 167s) Methods and practice in the teaching of swimming. Fee, \$1.50.

PHYSICS

Professor Roseberry

Associate Professors McClure (chairman), Pierce
Assistant Professor Edwards

The major requirement in physics for the A.B. degree is a minimum of 24 semester hours with at least 12 hours in courses numbered 200 and above.

The major requirement in physics for the B. S. degree is a minimum of 36 semester hours, including Phys. 113, 114; 115; 205; 206; 208; 209; 219-220; 223-224 or 249, 250; 225, 226; and electives from the following: Phys. 211, 214, 225, 226 (2-6); 239, 240, 261, and 271, 272; 305-306, 311-312.

1.2. THE PHYSICAL WORLD

(3) Roseberry

The principles underlying nature's activities, their relation to man's needs and interests, and their application in the development of devices and conveniences in modern life. 2 lec. and 2 lab. Fee, \$4.

5, 6. INTRODUCTION TO PHYSICS

(4) Edwards

Mechanics, heat, sound, electricity, magnetism, and light. Indicated for nontechnical and premedic students. 3 lec. and 2 lab. Fee, \$5.

Physics 255

113, 114. GENERAL PHYSICS

(4) McClure

3 lec. and 2 lab. Prereg., Chem. 4 and Math. 6. Fee, \$5.

115. ELEMENTARY SOUND

(2) Pierce

This course is to supplement Phys. 113 and 114. Some of the topics discussed are: wave motion, sound production, musical scales, sound reception and control, supersonic vibrations, and acoustics of auditoriums. Prereq., Chem. 4 and Math. 6.

116. X-RAY TECHNIC

(2) Roseberry

An experimental course designed to give medical technologists a foundation for technical training in radiography. The content of the course is: X-ray generating apparatus, protective measures, exposure factors, radiographic procedures, manipulation of films and intensifying screens, and dark-room technic in processing films. Prereq., 6. Fee, \$5.

168p. TEACHING OF PHYSICS

(2) McClure

(Same as Ed. 168p) Objectives, selection of subject matter and laboratory work, and order and method of treatment. Prereq., one course in physics.

205. LIGHT: INTRODUCTION TO PHYSICAL OPTICS

(2) Roseberry

The elementary theory of interference, polarimetry, and special topics of physical optics. Emphasis is placed on experimental and practical applications. It is recommended to be taken in conjunction with Phys. 206. Prereq., 113 and 114.

206. EXPERIMENTAL PHYSICAL OPTICS

(I) Roseberry

Practical experimental experience in the use and arrangement of apparatus which involves the principles of physical optics. Special attention is given to the diffraction grating, Michelson interferometer, spectrometer, and polarimeter. 2 lab. Prereq., 113 and 114. Fee, \$2.

208. X RAYS

(2) Roseberry

A descriptive course of the principles and applications of X rays to the problems of physics, medicine, and industry. A study of X-ray productions, absorptions, scattering, refraction, crystal diffraction, radiography, X-ray therapy, and applications of X rays to metallurgy. Prereq., 113 and 114.

209. HEAT

(3) Pierce

Temperature and its measurement, specific heats, thermal expansion, transfer of heat, states of matter, thermodynamics. Prereq., 113, 114, and Math. 118.

211. PHYSICAL OPTICS

(3) Roseberry

Designed to develop the theory of those phenomena of light which are characteristic of waves. The exact relations between refraction and wave length. The design of achromatic lenses. Diffraction phenomena of single and of many slits. Prereq., 113, 114, and Math. 118.

214. MODERN SPECTROSCOPY

(3) Roseberry

The principles and application of spectroscopy. The following topics are discussed: origin of spectra; Ritz principle of combination; Bohr's explanation, series lines in the spectra; neutral and ionized states, ionization potentials, electron orbits; elementary quantum mechanics; and the effect of electric and magnetic fields on a spectral line. Prereq., 113 and 114.

219-220. ELECTRICITY AND MAGNETISM

McClure

An advanced course including also electrochemical properties of various substances, the calculation of magnetic fields by integration methods, a study of transient currents through inductive and capacitive circuits. Prereq., 113, 114, and Math. 118.

223-224. IONS, ELECTRONS, AND IONIZING RADIATIONS (3) McClure

Some of the topics are: properties of gaseous ions, the charge of an ion, ionization by collision, cathode rays, emission of electricity from hot bodies, X rays, radium and its products, the electron theory of matter. Prereq., 113, 114, and Math. 118.

225, 226. ADVANCED PHYSICS LABORATORY

The Staff

Prereq., 113, 114, and Math. 118.

225a, 226a. Mechanics and Heat. Determination of "g" with Kater's pendulum, elastic and inelastic impact, viscosity of liquids, surface tension, moment of inertia. Heat content of gases, Stefan's law of radiation, mechanical equivalent of heat, R k N and gamma for a gas, conductivity of solids, heat of fusion of metals, absolution expansion of mercury. Fee, \$2 for each credit hour. (1-3)

225b, 226b. Electricity and Magnetism. Calibration of a galvanometer, Rayleigh potentiometer, dialectric constants, study of ballistic galvanometer, transients, magnetic hystersis, use of the oscillograph. Fee, \$2 for each credit hour. (1-3)

225c, 226c. Advanced Optics. Determination of refractive indices with the spectrometer and refractometer, measurement of wave length with the grating, use of the interferometer and the polarimeter, spectrum analysis. Fee, \$2 for each credit hour. (1-3)

225d, 226d. Electronics. Thermionic emission including Richardson's law, Langmuir's law and Tungar rectifier, charge on the electron, specific charge of the electron, resonance potentials, electrical discharge through gases, photo electricity, fundamentals of microwaves. Fee, \$2 for each credit hour. (1-3)

225f, 226f. X rays and Radioactivity. Powder and Laue methods of crystal analysis, X-ray spectral distribution curves with ionization spectrometer, absorption coefficients and limits, Moseley's law, scattering polarization and refraction of X rays. Geiger-Muller counters, electrometer tubes, and curved crystal spectrograph. Radioactive decay and radiation analysis. Fee, \$2 for each credit hour. (1-3)

239, 240. GENERAL THERMODYNAMICS Prereq., 113, 114, and Math. 118.

(3) The Staff

249, 250. INTRODUCTION TO MODERN PHYSICS

(2) Edwards

Some topics are: elementary quantum of electricity, corpuscular radiations, elementary quantum action, spectra of hydrogen and ionized helium, X-ray spectra, optical spectra, and molecular spectra. Prereq., Math. 118.

261. MINOR PROBLEMS IN PHYSICS

(1-4) The Staff

The course permits qualified students to carry out a minor research in any field of physics in order to increase their knowledge and techniques. Prereq., 113, 114; 205, 206, and 208 or 223-224 or 225, 226 or 249, 250; and permission. Fee, \$2 for each credit hour.

271, 272. PHYSICS OF THE AIR

(3) The Staff

An advanced technical study of the mechanics and thermodynamics of the atmosphere, atmospheric electricity and auroras, meteorological acoustics, atmospheric optics. Prereq., 113, 114, Math. 118.

305-306. THEORETICAL PHYSICS

(4) Edwards

Advanced dynamics, Lagrange's equations, Hamilton's principle, canonical equations, Hamiltonian-Jacobi equation, hydrodynamics, statistical mechanics, kinetic theory. Prereq., 225, 226, and Math. 215.

311-312. ADVANCED ATOMIC STRUCTURE AND THEORY OF QUANTA

(3) Roseberry

Elementary constituents of the atom, hydrogenic atoms and their spectra, general theorems of optical spectra, old quantum theory, X-ray and molecular spectra. Prereq., 225 and 226.

381. RESEARCH IN PHYSICS

(1-6) The Staff

Prereg., 225 and 226. Fee, \$2 for each credit hour.

391. SEMINAR IN PHYSICS

(1) The Staff

Prereq., 15 hours.

395. THESIS

(4-6) The Staff

Prereq., permission.

PORTUGESE—See Romance Languages

PRINTING ADMINISTRATION

Associate Professor Kinison

II. HAND COMPOSITION AND TYPOGRAPHY

(3-6) Kinison

Graded projects in hand composition involving basic operations as used in general printing. Supplementary assignments and demonstrations are given with the aim of presenting these operations in their relations to management, history, and development of modern typography. 1 lec. and 4-10 lab. Fee, \$1 per credit hour.

21. ELEMENTS OF PRESSWORK

(3-6) Kinison

Production problems in the operation of presses, adjustment and care of press-room machinery, selection and handling of paper, and matching and mixing of inks. 1 lec. and 4-10 lab. Fee, \$1 per credit hour.

112. ORGANIZATION OF PRINTING PRODUCTION

(4) Kinison

An introduction to commercial problems and jobs through use of typical projects. Planning, layout, estimating, and scheduling of the complete manufacture of job printing. 1 lec. and 6 lab. Prereg., 11, 21, or Ind. A. 142. Fee, \$2.

144. PHOTOLITHOGRAPHY (Same as Ind. A. 144)

Kinison (3)

PSYCHOLOGY

Professors Lehman, A. C. Anderson (chairman), Patrick, Scott, Paulsen, Gentry

Instructor Cable

Acting Instructors Roach, Sherman

The major requirement in psychology is 24 semester hours including Psych. 1, 101, and 109, with the remaining hours approved by the department advisers. The following courses in other departments and colleges are suggested: Ed. 281, Math. 226, H. R. 201, Stat. 155-156, and Zool. 135 or 136, 204.

I. GENERAL PSYCHOLOGY

(3) The Staff

An elementary, scientific study of the most significant facts and principles of mental life. Lectures, class demonstrations, discussions. Fee, \$1.

2. PSYCHOLOGICAL APPROACH TO EVERYDAY PROBLEMS

(3) Scott

An attempt is made to use the principles of psychology in the solution of the problems and adjustments of everyday life. Prereq., 1.

3. CHILD PSYCHOLOGY

Topics considered: sensory life of the child, emotions, curiosity, imagination, memory, imitation, language, art, moral and religious development. Prereq., 1.

4. BUSINESS PSYCHOLOGY

A survey of general psychological principles essential for effective adjustment of the individual in business and industry. Prereg., 1.

5. EDUCATIONAL PSYCHOLOGY

(3) Lehman, Patrick, Gentry

The nature and rate of the learning process. The influence upon learning efficiency of such factors as heredity and environment, maturation, emotion, motivation, etc. Prereq., 1. Fee, \$1.

6. PSYCHOLOGY OF ADVERTISING AND SELLING

(3) Anderson

Prereq., 1.

7. ELEMENTARY PSYCHOLOGY FOR TEACHERS (4) Anderson, Gentry, Patrick
This course embodies the principles of General Psychology with
such educational applications as time permits, plus the essentials of
Educational Psychology. This is a special course requested for the
Cadet Teacher Training Program. Prereq., cadet teachers. Fee, \$1.

9. IMPROVEMENT OF READING AND STUDY METHODS (1) Gentry
Improvement of the study and reading habits of class members; how
teachers may develop more effective puril study habits.

101. GENERAL PSYCHOLOGY

Emphasis upon the main problems of psychology, giving the points of view of the different schools. Many fields of psychology are rapidly surveyed. Prereg., 1.

109. EXPERIMENTAL PSYCHOLOGY
Training in the scientific methods and tools of modern experimental psychology. Individual reports of experiments in the following fields: sensory processes, individual differences, learning, memory, etc. 2 lec. and 4 lab. Prereq., 1. Fee, \$3.

113. PSYCHOLOGY OF ADOLESCENCE (Junior and Senior High School Pupils)
(2) Gents
A study of the physical growth glandular changes and emotions of

A study of the physical growth, glandular changes, and emotions of adolescents. Interests, religious experience, and social adjustment are considered. Prereq., 1.

131. EMPLOYEE SELECTION AND PLACEMENT (2) Anderson, Paulsen
Evaluation of tests and other selective devices for employee selection,
placement, and promotion in industry. Lecture and laboratory combined.
Fee, \$1.

133. INDUSTRIAL PSYCHOLOGY
Learning, training, fatigue, motivation, and environmental conditions as they affect the individual's performance. Lecture and laboratory combined.

201. ADVANCED EXPERIMENTAL PSYCHOLOGY (3) Paulsen Research on a topic selected by the student. Prereq., 109 and 3 hrs. additional. Fee, \$3.

203. MENTAL MEASUREMENTS

The administration, methods, and results of individual and group intelligence tests. 2 lec. and 1 lab. Prereq., 6 hrs. Fee, \$1.

204. PSYCHOLOGY OF EXCEPTIONAL CHILDREN

The growth and development of nontypical children with special reference to the nature, the cause of, and the possibility of remedial treatment. Speech disorders, left-handedness, deafness, blindness, delinquency, psychopathy, special talents and defects, and other characteristics of extreme deviates are considered. Prereq., 6 hrs.

205. CLINICAL PSYCHOLOGY

(3) Gentry

A survey of methods and some practice in diagnosing certain vocational and educational abilities and disabilities in children and adults. Prereq., 203. Fee, \$1.

207. COMPARATIVE AND GENETIC PSYCHOLOGY

(3) Patrick

Behavior of lower and higher organisms leading up to man is considered. A comparative-genetic-psycho-biological approach is maintained. 2 lec. and 2 lab. Prereq., 6 hrs., or 3 hrs. and 6 hrs. zoology. Fee, \$3.

, 209. MOTIVATION AND EMOTIONS

) Patrick

The dynamics of animal and human behavior: a study of drives, desires, incentives; a study of emotion in relation to frustration of motives. Prereq., 6 hrs.

210. MENTAL HYGIENE

(3) Patrick

The course aims to evaluate and synthesize information bearing upon mental health from the following fields: psychology, psychiatry, physiology, medicine, and sociology. Prereq., 6 hrs.

212. ABNORMAL PSYCHOLOGY

(3) Scott

Considers man's mental deviations from the normal; the theory, application, and limitations of psychoanalysis; methods of studying abnormal mental processes. Clinics at hospitals. 2 lec. and 1 lab. Prereq., 8 hrs., or 6 hrs. and 6 hrs. zoology. Fee, \$1.

214. PSYCHOLOGY OF RELIGION

(2) Anderson

Prereq., 6 hrs. and permission, or 6 hrs. and 6 hrs. philosophy.

215. SOCIAL PSYCHOLOGY

3) Paulsen

An introductory study of the social-mental relations between individuals, significance of instincts, habit formation, and reflection in human social life. Methods of investigating social behavior. Prereq., 6 hrs.

216. PSYCHOLOGY OF INDIVIDUAL DIFFERENCES

(2) Lehman

The extent and the nature of individual differences, the influence thereupon of such factors as heredity, environment, race, nationality, age, and sex. Miscellaneous applications are also considered. Prereq., 6 hrs.

217. PSYCHOLOGY OF PERSONALITY

(3) Gentry

Influence of home and school on training and development of children's personality; also adult personality in business and social life. Prereq., 8 hrs. Fee, \$1.

220. PERSONNEL AND VOCATIONAL COUNSELING

l) Paulsen

Topics dealt with will bear upon personnel and vocational problems to be met in industrial, commercial, and school work. Prereq., 6 hrs.

223. RESEARCH METHODS AND TECHNIQUES

(2) Paulsen

Study of research methods especially suited to handling problems in social sciences. Major emphasis is placed on the application and interpretation of statistical techniques. Prereq., graduate student or undergraduate major in social science with 8 hrs. completed in major field.

Radio 261

225. MINOR PROBLEMS IN PSYCHOLOGY

(1-6) The Staff

Training in the scientific study of some problem of special interest to the student. Relatively independent work emphasized. Prereq., 8 hrs. and permission.

233. LEARNING AND MEMORY

2) Anderson

Lectures and readings attempting to systematize the experimental and theoretical work in this field. Prereq., 8 hrs.

235. HISTORY OF PSYCHOLOGY

(2) Scott

The evolution of methods and concepts of psychology with emphasis on more recent trends. Prereq., $8\ hrs.$

237. COUNSELING AND PSYCHOTHERAPY

(3) Patrick

Analysis, evaluation, and practice in use of techniques and procedures in counseling and psychotherapy. Prereq., 6 hrs. Fee, \$1.

381. RESEARCH IN PSYCHOLOGY

(2-4) The Staff

Prereg., 15 hrs. and permission.

394. ADVANCED SEMINAR IN PSYCHOLOGY

(2-4) The Staff

Trends and methods in psychology are critically reviewed. Cooperative investigations, findings of many studies coordinated with the student's own findings. Prereq., 15 hrs. and permission.

395. THESIS

(4-8) The Staff

Prereq., permission.

RADIO

Assistant Professors Jukes, Andersch Instructors Krimel, Turnbull Visiting Lecturer Reinbold

5. RADIO SPEECH

(2) Andersch

Microphone technique. Pronunciation problems. Practice in reading various types of materials. 1 lec. and 2 lab. Prereq., Speech 2. Fee, \$2.

125-126. RADIO PLAY PRODUCTION

(3) Jukes

Radio techniques including the study of sources for radio material and the editing and preparation of radio play script. Use of sound effects. Practice work in the university studio and in nearby radio stations. 1 lec. and 4 lab. Prereq., 5.

179. INTRODUCTION TO RADIO

(2) Krimel

This course deals with the history, development, and use of the radio as a socializing influence. Consideration will be given to its educational, cultural, and journalistic aspects. Attention will also be paid to American and foreign radio systems, mechanics of broadcasting, rules of broadcasting, major and minor networks, the development of radio advertising, public service programs and their possibilities, and the future of radio as an instrument of national and world communication.

180. RADIO NEWS WRITING AND EDITING

(2) Krimel

The study of the principles of writing and editing news for broad-casting combined with preparation of the various types of news scripts from facts gathered firsthand and from the news wire services of the Associated Press, United Press, Press Association, and United Press Radio. Also, consideration will be given to the problem of handling news interpretation and editorial comment. Prereq., 179, Jour. 103, and Jour. 107. Fee, \$2.

185. RADIO NEWS PRACTICE

(2-6) Krimel

A laboratory course in the production of regular news shows covering both the preparation of copy and the actual broadcasts of the script. Prereq., 180 and Jour. 107. Fee, \$1 per hour.

209. RADIO ADVERTISING

(2) Turnbull

This course will deal with the preparation of copy, both spot and program commercials, the planning of campaigns, selling problems, the handling of accounts, the determination of rates, measurement, and testing, merchandising and other services, sales promotion, agency relations, ethics, and standards. Prereq., 179 and Advt. 155.

211. RADIO MANAGEMENT

(2) Turnbull

Consideration of the legal, technical, and business principles and practices of station maintenance and operation. Subject matter will include: accounting and budgeting, operation and maintenance, personnel relations, programs and programing, traffic, promotion, publicity, and public relations, public service, research and planning, legal problems, including censorship, copyright, libel and slander, codes and FCC rules and regulations, and methods of handling controversial topics. Prereq., 179, 180, 209, Advt. 155, and Acct. 81.

216. WRITING FOR RADIO

(2) Krimel

Writing of scripts including dramatizations of significant and human interest stories which have appeared in newspapers, straight and dramatized commercials, original and adapted short shorts, sketches and short stories. Sound and production problems for the scripts will be worked out in cooperation with students in 125. Prereq., 6 hrs. or 12 hrs. English, and junior or senior rank.

247. RADIO WORKSHOP

(1-7) Reinbold

Problems in radio. Rehearsal, performance, and technical work connected with radio broadcasting. Not more than two hours may be scheduled by a student in one semester; a maximum of seven hours credit may be elected by a student. Prereq., 6 hrs. in radio and permission.

Suggested courses:

- E. E. 101-102-Fundamentals of Radio
- E. E. 105—Radio Broadcasting Mechanics
- E. E. 205-School Acoustics

ROMANCE LANGUAGES

Professors Noss, Whitehouse, Wilkinson,

Associate Professor Renkenberger (chairman) Assistant Professors Leete, Rice

Instructor Witsberger

Acting Instructor Stormes

The major requirement in French, Italian, or Spanish for the A. B. degree is 20 hours above course 1-2 in the language. A major in Romance languages or Romance philology consists of 20 hours above course 1-2 in one language and at least one year in each of two other Romance languages.

A candidate for the master's degree with a major in a Romance language is required to include at least 4 hours of Romance philology in courses above 300; such a candidate with a minor in a Romance language is urged to include at least 2 hours in a philology course above 300.

FRENCH

1-2. BEGINNING FRENCH

(4) The Staff

Pronunciation, essentials of grammar, oral practice, and reading.

5. FRANCE IN THE TWENTIETH CENTURY

(1)

A cultural survey in English. A study of the geography, history, art, music, literature, press, theater, and customs. Emphasis on the ideals and institutions of France since 1900. No knowledge of French required.

100. INTERMEDIATE FRENCH

(1-3) The Staff

Review of grammar, composition, conversation, and varied readings. The course fits the needs of those desiring either semester of second year French, and it may be taken either before or after Fr. 101 without duplication. Prereg., 2 or 2 yrs. high school French.

101-102. INTERMEDIATE FRENCH

Grammar review, drill in idioms and composition, and reading of a variety of texts in modern French literature. Prereq., 2 or 2 yrs. high school French.

115. FRENCH PHONETICS

(2) Noss

A course designed to improve pronunciation by the study of individual sounds, syllabification, isolated words, and connected speech. Exercises in articulation and diction. Frequent use of phonograph records. Prereq., 102.

119, 120. FRENCH CIVILIZATION

A survey of the geography, history, current events, customs, government, education, science, press, art, and music of France. Readings in French and discussions in English. Prereg., 102 or 3 yrs. high school French by permission.

123, 124. FRENCH CONVERSATION

(1-2) The Staff

This course aims to develop the student's ability to speak French. Constant practice in the vocabulary and idioms of everyday speech. The subject matter deals largely with French life and customs. Prereq., 102 or 3 yrs. of high school French.

143. FRENCH COMPOSITION

(1-3) Wilkinson

An introductory course in composition and stylistics of intermediate difficulty, with review of pronunciation and much oral practice. Prereq., 101.

165f. TEACHING OF FRENCH

(2) Noss

(Same as Ed. 165f) Practical methodology in the modern language field. Study of recent trends. Review of grammar from the pedagogical point of view. Exercises in practice teaching. Suggestions for projects, the choice of text books, dramatics, and the French club. Prereq., 102.

1650. TEACHING OF FRENCH AND ADVANCED FRENCH GRAMMAR

(2-3) Wilkinson

(Same as Ed. 1650) Prereq., 261 or, in unusual cases, special permission and 102.

201, 202. SURVEY OF FRENCH LITERATURE

(1-4) Wilkinson, Rice

A general view of French literature from the beginning. Special topics for investigation by advanced students. Collateral readings and reports. The work will ordinarily be arranged in four periods: first hour, lecture; second hour, explication de textes; third hour, reports on supplementary reading; fourth hour, special investigation. Prereq., 102.

203, 204. READINGS FROM FRENCH LITERATURE

(1-8) The Staff

Selections vary with the needs of the class or the student. Prereq., 102.

205, 206. THE FRENCH NOVEL

(1-3) The Staff

History of the novel in France from the Middle Ages to modern times. Prereq., 102.

211, 212. SEVENTEENTH CENTURY DRAMA

II al Ni

A study of the comedies of Moliere and the tragedies of Corneille and Racine. Prereq., 102.

219, 220. FRENCH ROMANTICISM

(2) Noss

A study of the development of lyric poetry, the novel, and the drama during the first half of the nineteenth century. Prereq., 102.

228. SIXTEENTH CENTURY FRENCH LITERATURE

(2) Rice

Development of French thought during the Renaissance as seen in the works of Rabelais, Calvin, the Pleiade, Montaigne, and others. Prereq., 6 hrs. beyond 102.

231, 232. SEVENTEENTH CENTURY FRENCH LITERATURE

(2-3) Noss

Study of seventeenth century literature, with the exception of the drama. Selected readings from Malherbe, Descartes, Pascal, La Fon-

taine, Mme. de Sevigne, Boileau, Mme. de La Fayette, La Rochefoucauld, La Bruyere, and Fenelon. Prereg., 102.

235, 236. EIGHTEENTH CENTURY FRENCH LITERATURE (1-6) Renkenberger A study of the literature of France from 1715 to the French Revolution. Readings and reports, class discussions, and lectures. Prereq., 102.

239, 240. NINETEENTH CENTURY FRENCH DRAMA

(1-4) Wilkinson, Renkenberger

History of the French drama beginning with the preromantic movement. Special topics for investigation by advanced students. Collateral readings and reports. The work will ordinarily be arranged in four periods: first hour, lecture; second hour, explication de textes; third hour, reports on supplementary reading; fourth hour, special investigation. Prereq., 102.

244. ADVANCED FRENCH COMPOSITION (1-2) Wilkinson Includes drill in pronunciation with phonetics. Prereq., 102.

261-262. ADVANCED FRENCH GRAMMAR

(1-3) Wilkinson

This course should be taken after or simultaneously with R. Philol. 225. Prereq., 3 yrs. of college French or B in 102.

271. ADVANCED FRENCH

(1-16) Noss

Specialized courses conducted in French designed to meet the special interests of advanced students. Prereq., 6 hrs. beyond 102.

- b. Boileau
- d. Modern French Drama
- m. Moliere
- n. Modern French Novel
- po. Nineteenth Century Poetry
- pr. Seventeenth Century Prose
 - r. Racine
 - s. Mme. de Sevigne

281. RESEARCH IN FRENCH LANGUAGE AND LITERATURE (1-16) The Staff

A course designed to promote independent work in the study of special linguistic and literary problems. Prereq., 14 hrs. beyond 102 and permission.

321-322. ROMANCE PHILOLOGY (OLD FRENCH)

See "Romance Philology."

395. THESIS

(4-8) The Staff

Prereq., permission.

ITALIAN

1-2. BEGINNING ITALIAN

(1-5) The Staff

Pronunciation, principles of Italian grammar, and practice in the use of the language.

101-102. INTERMEDIATE ITALIAN

(1-4) The Staff

Review grammar, idioms, and reading in modern Italian literature with some emphasis on diction and conversation; also a systematic study of the verb. Prereq., 2 or 2 yrs. high school Italian.

201, 202. SURVEY OF ITALIAN LITERATURE

(1-3) The Staff

Brief outline of the history of Italian literature given in English or in Italian according to the nature and preparation of the class. Prereg., 102.

203, 204. READINGS FROM ITALIAN LITERATURE

(1-4) The Staff

Selections vary with the needs of the class or the student. Prereq., 102.

271. ADVANCED ITALIAN

(1-16) The Staff

Advanced work in language and literature with special instruction of a technical character in Italian. Individual work done under the guidance of instructors. Prereq., 20 hrs. The offerings are as follows:

- a. General introduction to the study of the literature of the thirteenth century, including the chief philological principles involved in the formation of Old Italian.
- b. The fourteenth century, including special study of Dante, Petrarch, or Boccaccio.
- c. The Renaissance in Italy.
- d. Il Seicentismo. Decadence and affectation in Italian letters with consideration of analogous movements in other modern literatures.
- e. The eighteenth century, including Goldoni and Alfieri.
- f. The nineteenth century. Romanticism and the Risorgimento.
- g. Contemporary Italian literature.
- h. Storia dell'Italia Moderna.

395. THESIS

(4-8) The Staff

Prereq., permission.

PORTUGUESE

1-2. BEGINNING PORTUGUESE

(1-4) Whitehouse

Introduction to the rudiments of Portuguese, supplemented by reading and practice in the spoken language.

103. READINGS IN PORTUGUESE

(1-6) Whitehouse

A study of Brazilian novels and short stories; review of grammar and conversation. Prereg., 2.

ROMANCE PHILOLOGY

225-226. GENERAL ROMANCE LINGUISTICS

(1-2) The Staff (

Introduction to graduate courses in philology. A study of Vulgar

Latin forms in connection with the general philology of French, Italian, Portuguese, and Spanish. Correct pronunciation of the modern languages is stressed. Prereq., Fr., It., Lat., or Sp. 102.

321-322. ROMANCE PHILOLOGY (OLD FRENCH)

2) The Staff

Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in French. Prereq., 16 hrs. in French and 16 hrs. in another Romance language or in Latin. R. Philol. 226 is advised but not required.

341-342. ROMANCE PHILOLOGY (OLD SPANISH AND PORTUGUESE)

(2) The Staff

Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in Spanish and Portuguese. Prereq., 16 hrs. in Spanish and 16 hrs. in another Romance language or Latin. R. Philol. 226 is advised but not required.

395. THESIS

(4-8) The Staff

Prereq., permission.

SPANISH

1-2. BEGINNING SPANISH

(4) The Staff

Introduction to the rudiments of Spanish grammar. Reading and, practice in conversation.

100. INTERMEDIATE SPANISH

(1-3) The Staff

Review of grammar with composition and varied readings. The course fits the needs of those desiring either semester of second-year Spanish, and it may be taken either before or after Sp. 101 without duplication. Prereq., 2 or 2 yrs. high school Spanish.

101-102. INTERMEDIATE SPANISH

(4) The Staff

Review of grammar, study of idioms, composition, conversation, and varied reading in modern literature. Prereq., 2 or 2 yrs. high school Spanish.

103. SPANISH CULTURE AND CIVILIZATION

(1-2) Whitehouse

The history, literature, and cultural development of Spain. Conducted in English.

104. HISPANIC-AMERICAN CIVILIZATION

(1-2) Whitehouse

The art, customs, history, literature, and social philosophy of the peoples of Latin America as a basis for a full understanding and appreciation of their cultural evolution. Conducted in English.

113, 114. SPANISH COMPOSITION AND CONVERSATION

(1-2) Whitehouse, Ondis

Prereq., 102.

141, 142. COMMERCIAL SPANISH

(2-4) Ondis, Renkenberger, Rice

Rapid review of Spanish grammar. Study of commercial correspondence and the diplomatic documents and the relative technical terminology. Extensive practice in translating and writing commercial letters and reports in Spanish. Prereq., 101 or B in 2.

165s. TEACHING OF SPANISH

(2) Whitehouse, Ondis

(Same as Ed. 165s) This course deals with a study of classroom procedure and modern language bibliography, selection of suitable texts, and the development of Spanish civilization. Prereq., 102.

201,202. SURVEY OF SPANISH LITERATURE (1-3) Whitehouse, Ondis Historic and literary study of Spain from the Middle Ages to the present time. Prereq., 102.

203, 204. READINGS FROM SPANISH LITERATURE (1-4) The Staff Selections vary with the needs of the class and the student. Prereq., 102.

205, 206. THE SPANISH DRAMA

(2-3) The Staff

Sp. 205 traces the drama in Spain from its origins to 1700; Sp. 206, from 1700 to the present. Prereq., 102.

207. THE GOLDEN AGE

(2-3) Whitehouse, Ondis

Historic and literary study of the sixteenth and seventeenth centuries. Works of the leading dramatists, as Lope de Vega, Calderón, Tirso de Molina, etc., and some prose, except Cervantes, are read. Prereq., 102.

208. CERVANTES

(1-3) Whitehouse, Ondis

The chief works of Cervantes are studied, with particular attention to the Novelas Ejemplares and the Quijote. Prereg., 102.

211. SPANISH AMERICAN LITERATURE (1-6) Whitehouse, Ondis Important literary productions of the chief Spanish American countries are read. Prereq., 102.

212. NINETEENTH CENTURY SPANISH LITERATURE Prered., 102.

(2) Whitehouse, Ondis

213. CONTEMPORARY SPANISH LITERATURE Prereq., 102.

(2) Whitehouse, Ondis

215, 216. THE SPANISH NOVEL

(2-3) The Staff

Sp. 215 covers the evolution of the novel in Spain from the earliest times to 1700; Sp. 216, the Spanish novel from 1700 to the present. Prereq., 102.

251, 252. ADVANCED SPANISH GRAMMAR

(3) Ondi

Study of the pecularities of Spanish grammar and syntax. Analysis of difficult texts. Free composition and oral reports. Prereq., 102.

271. ADVANCED SPANISH

(1-16) The Staff

Prereq., 20 hrs.

- a. Early period. The Epic, particularly the *Poema del Cid*, and Chronicles.
- b. Early prose and poetry. Don Juan Manuel and the Arcipreste de Hita.
- c. The Romancero. The Romances of Chilvalry and the realistic novel.

- d. Sixteenth century. The mystics. Three types of novel: Moorish, pastoral, and picaresque.
- e. Seventeenth century. The works of Cervantes, except the $\mathit{Quijote}$, and the chief dramatists.
- f. Development of the theatre in the seventeenth century.
- g. Recent developments in Spanish literature: novel, drama, and essay.
- h. Benito Pérez Galdôs. Novels.
- 291. RESEARCH IN SPANISH Prereg., 20 hrs.

(2-4) Whitehouse, Ondis

341-342. ROMANCE PHILOLOGY (OLD SPANISH AND PORTUGUESE)
See "Romance Philology."

395. THESIS

(4-8) The Staff

Prereq., permission.

ROMANCE PHILOLOGY—See Romance Languages

RUSSIAN

Acting Instructor Hammer

1-2. BEGINNING RUSSIAN

(4) Hammer

Instruction in the reading of the Russian printed characters and use of the Russian handwriting, grammar, idiomatic expressions, conversation and reading of prose. Prereq., one year of a foreign language.

101-102. INTERMEDIATE RUSSIAN

(4) Hammer

Reading of poems, plays, and literary and scientific prose. Review of grammar. Conversation and composition. Prereq., 2.

SCULPTURE

Artist in Residence Road

115. CERAMICS

(2-3) Rood

Clay processes toward functional shape. Methods of building ceramic sculpture. Glazing and decoration of pottery and sculpture. 1 lec. and 3-5 lab. Fee, \$2 per credit hour.

131. SCULPTURE

(3-12) Rood

Modeling in clay and direct cutting in wood and stone. Emphasis on technique with study of form, structure, and decorative treatment of human figure. Not more than three credit hours may be carried in one semester. 6 lab. Fee, \$2 per credit hour.

216. ADVANCED CERAMICS

(3-12) Rood

Design, glazing, firing. Emphasis on technique and originality. Not more than three credit hours may be carried in one semester. 6 lab. Prereq., 12 hours including 115. Fee, \$2 per credit hour.

For allied courses see:

Art History, page 156. Design, page 171. Painting, page 243.

SECRETARIAL STUDIES

Associate Professor Sponseller (chairman) Assistant Professor Hardenburg Instructors Via, Appel

15. TYPEWRITING

(2) Hardenburg

This course is designed to develop basic skill in the operation of the typewriter and to develop an ability to apply this skill to the more common typing practices such as personal and business letters, manuscripts, and tabulation. Students are expected to attain a rate of 30 words a minute. Students who have had typewriting in high school should register for 16 or 111. 5 lec. and 1 lab. Fee, \$2.

16. TYPEWRITING

(2) Appel

This course is planned to develop further the basic skill in the operation of the typewriter, to build sustained typing control and speed, and to apply that skill to quantity production of commonly used business forms. Students are expected to attain a rate of 45 words a minute. 5 lec. and 1 lab. Prereq., 15 with a scholastic average of at least 2.0. Fee, \$2.

31. SHORTHAND

(3) Hardenburg, Via

A course in the theory of Gregg shorthand. A student should develop the ability to take dictation at the rate of 60 words per minute on new material. Four hours a week. Prereq., 15 or with 15.

32. SHORTHAND

(3) Hardenburg, Via

A course planned to increase the student's ability to take dictation. A dictation rate of 80 words per minute on new material is the standard for credit. Four hours a week. Prereq., 31 with a scholastic average of at least 2.0.

III. TYPEWRITING

(2) Hardenburg

A course planned to develop typewriting speed and accuracy. 5 lec. and 1 lab. Prereq., 16 with a scholastic average of at least 2.0, or 45-word speed test. Fee, \$2.

120. BUSINESS LETTER WRITING

(3) Sponseller

The purpose of the course is to assist the student in attaining a high proficiency in the use of English for busines purposes; that is, to aid him in writing effective business letters and reports for typical business situations. Prereq., Eng. 2 or 4.

151. BEGINNING DICTATION AND TRANSCRIPTION

(5) Appel

The fundamental principles of taking dictation and transcribing business letters. The standard for credit is the ability to take letter dictation at 120 words per minute and transcribe at the rate of 25 words per minute. Two hours a day, five days a week. Prereq., 16 and 32 with scholastic average of at least 2.0. Fee, \$2.

152. ADVANCED DICTATION AND TRANSCRIPTION

(5) Via

The standard for credit is the ability to take congressional material dictation at 120 words per minute and transcribe at the rate of 35 words per minute. Two hours a day, five days a week. Prereq., 151 with a scholastic average of at least 2.0. Fee, \$2.

153. SPECIALIZED DICTATION AND TRANSCRIPTION

(3) Via

For those who wish to secure positions which require greater speed than that required by the ordinary business office. Practice is given in writing forms used in a wide variety of professional offices. One hour daily. Prereq., 152 with a scholastic average of at least 2.0. Fee, \$2.

156. COURT REPORTING

Appel

The techniques of reporting in shorthand and transcribing court proceedings, hearings, meetings, etc. One hour daily. Prereq., 111 and 152 with a scholastic average of at least 2.0. Fee, \$2.

161s. TEACHING OF SHORTHAND

(2) Appel

(Same as Ed. 161s) Prereq., 151 or an 80-word dictation test.

161t. TEACHING OF TYPEWRITING

(2) Hardenburg

(Same as Ed. 161t) Prereq., 16 or 111.

171. SECRETARIAL THEORY

(2) Appel

Designed to give training in the operation of office machines and in the duties of a private secretary. Five hours a week. Prereq., 16 and 32. Fee, \$3.

172. SECRETARIAL THEORY

(2) Hardenburg

Designed to give the student training in filing and in the use of the commercial dictaphone. Five hours a week. Prereq., 16. Fee, \$2.

175. SECRETARIAL PRACTICE

(4) Sponseller

Students spend five hours a week working in offices on the campus, and five hours in the secretarial practice laboratory and conference. Prereq., 151 and 171.

180. OPERATION OF OFFICE MACHINERY

2) Sponselle

The purpose of the course is to give the student a working knowledge of typical business machines used in offices. Five hours a week. Prereq., junior or senior rank. Fee, \$3.

185. OFFICE MANAGEMENT

(2) Sponseller

A study of the principles governing office administration with emphasis upon organization, management, layout, equipment, and functions. Prereq., junior or senior rank.

235. COMMERCIAL CURRICULUM CONSTRUCTION

(2) Appel

A course involving the principles and factors necessary in the construction of a curriculum of commercial courses in the high schools of varied communities. Prereq., 20 hrs. commerce.

237. ADMINISTRATION IN BUSINESS EDUCATION

(3-6) Sponseller

Consideration of the problems involved in planning, administering, and supervising a business education program in the high school. Prereq., 20 hrs. commerce and permission.

287. RESEARCH IN BUSINESS TEACHING PROBLEMS (2-8) The Staff Prereq., 20 hrs. commerce, senior rank, and permission.

391. SEMINAR IN BUSINESS TEACHING PROBLEMS Prereq., 20 hrs. commerce and permission.

(2-10) The Staff

395. THESIS

(4-8) The Staff

Prereq., permission.

Additional course:

Acct. 101-102—Secretarial Accounting

SOCIOLOGY

Professor Taylor (chairman)
Associate Professor Jeddeloh
Assistant Professor Katona
Acting Assistant Professor Schwickert
Instructor Cusick

The major requirement in sociology for the A.B. degree is a minimum of 24 semester hours including Soc. 1, 2, and additional courses selected in accordance with the student's line of specialization and departmental approval. Students preparing for positions in social case work, group work, community organization, government service, or work in applied criminology and delinquency will be expected to add to the major requirement a minimum of 8 hours in the appropriate case work, internship, research, or other approved professional courses. See preparation for social work, page 107.

I. GENERAL SOCIOLOGY

(3) Jeddeloh, Katona, Taylor

An elementary study of fundamental characteristics of culture and society; an analysis of social groups, social institutions, and social processes; the nature of social change; and sociology as a social science.

2. SOCIAL PROBLEMS

(3) Jeddeloh, Katona, Taylor

An elementary study of a limited number of social problems revealing the stresses and strains of contemporary social life as they affect the human personality, the family, the community and its institutions, and some aspects of national life; the application of sociological principles, methods, and techniques in the analysis of problems; the evaluation of solutions and programs. Prereq., 1 or permission.

5. RURAL SOCIOLOGY

(2) Taylor

The composition of rural population, the rural family and standards of living, and an analysis of rural institutions. The fundamental differences between rural and urban groups, and the major rural social processes.

104. COMMUNITY ORGANIZATION

(3) Katona

An analysis of the structure of the community. A study of social agencies in relation to community organization; ways and means of planning and organizing the social welfare services of the community to meet its social needs. Prereq., 3 hrs.

105. RACE RELATIONS

(3) Katona

A survey of the status and adjustment of minority racial groups in the United States, with special attention to the American Negro. Problems of race consciousness, race prejudice, and race conflicts. Regional variations in interracial conflicts and adjustments. Prereq., 3 hrs.

106. RURAL SOCIAL ORGANIZATION

(2) Taylor

The basic organizations in rural life including the Grange, Farm Bureau, Rural Extension Work, farmers' cooperatives, and governmental agencies; the structure and function of private organizations which aim to improve rural life. Prereq., 3 hrs.

107. EDUCATIONAL SOCIOLOGY

(3) Jeddeloh

A study of the social nature and function of education in contemporary society; factors influencing the social status and personalities of pupils; the problem child in school; sociological aspects of learning, teaching, classroom organization, and the curriculum; the school in its relation to the community. Supplementary laboratory work and field observations. Prereq., 3 hrs.

110. PSYCHOLOGICAL FACTORS IN SOCIETY

(3) Schwickert

The social and cultural foundations of human personality. An analysis of the role of language in behavior, prejudice, crowds, audiences, publics, fashion, public opinion, leadership, censorship, and propaganda. Prereq., 3 hrs.

125. SOCIAL ANTHROPOLOGY

(3) Taylor

Origin and development of our prehistoric ancestors; the customs, institutions, and behavior of primitive tribes including case studies of the American Indians, African tribes, and other preliterate groups. Prereq., 3 hrs.

133. FIELDS OF SOCIAL WORK

(2) Cusick

A survey of the functions, methods, and philosophy of professional social work, its relation to other professions, the divisions of the field, personal qualifications and academic preparation required, and trends in employment opportunities. Prereq., 3 hrs.

137. SOCIAL STATISTICS

(3) Schwickert

A survey of elementary statistical concepts with special applications to social data: methods of tabulation, graphical representation, measures of central tendency, dispersion, and correlation; elementary problems of sampling. Prereq., 3 hrs.

169s. TEACHING OF SOCIAL SCIENCE (Not offered in 1947-1948) (2) Jeddeloh (Same as Ed. 169s)

204. SOCIOLOGY OF RECREATION

(3) Katona

The historical antecedents and the contemporary functions of recreation and leisure in modern society; theories of motivation; sociologically important trends in contemporary art, music, drama, motion picture, the dance, literature, sports, outdoor living, and travel; community programs of recreation. Prereq., 6 hrs.

205. SOCIAL GROUP WORK

(3) Katona

An introduction to the principles, methods, techniques, and agencies of group work. Interpreting the group management approach to personality development in social education. Prereq., 6 hrs.

206. SOCIAL GROUP WORK SERVICES

(2) Katona

Student field training in the leadership of junior and adolescent groups. Prereq., 8 hrs., including 205. Fee, \$5.

208. MARRIAGE AND THE FAMILY

(3) Jeddeloh, Taylor

A study of the institutional and human nature aspects of modern marriage and the family. Attention is given to the formation of personality in the parental family, courtship and marriage relations, family and marital disorganization, and the impact of social change on the family. Prereq., 6 hrs.

210. SOCIAL THEORY

(3) Taylor

The earliest social thought; the major contributions of sociologists to social thought with emphasis on recent trends. Prereq., 6 hrs.

211. CRIMINOLOGY AND PENOLOGY

(3) Jeddeloh

The course surveys general facts with respect to crime, the criminal, and his treatment by society. Particular attention is paid to measures and theories which point in the direction of a scientific criminology. Prereq., 6 hrs.

212. POPULATION PROBLEMS

(3) The Staff

Population studied from the standpoint of numbers and quality in the United States and other sections of the world. Differential fertility, birth control, eugenics, and other problems of population are treated. Prereq., 6 hrs.

218. URBAN SOCIOLOGY

(3) Jeddeloh

The historical development of cities in western society; cities by location, function, and region; trends in urban population; ecological and cultural studies of urban areas; urban problems of welfare, housing, and recreation; city and regional planning. Prereq., 6 hrs.

221. CONTEMPORARY SOCIAL MOVEMENTS

(3) Taylor

The better-known Utopian and socialistic philosophies. The two significant social experiments of the present time, communism and fascism. The more recent proposals for achieving a planned and controlled social order. Prereq., 6 hrs.

222. JUVENILE DELINQUENCY

(3) Jeddeloh

Factors associated with juvenile delinquency, characteristics of delinquents, juvenile court procedure, probation, correctional training in institutions, plans and programs for the prevention of delinquency. Field contact and the handling of realistic data. Prereq., 6 hrs.

223. POVERTY AND ECONOMIC INSECURITY

(3) The Staff

Poverty and economic insecurity with emphasis on measures of treatment and prevention. Social insurance and recent legislation for social security in the United States. Prereq., 6 hrs.

224. CHILD WELFARE

(3) Cusick

Consideration of the legislation providing for child care and protection and the study of problems of children, with emphasis on the function of the family and such substitutes of family services as foster home and institutional care. Prereq., 6 hrs.

234. PUBLIC ASSISTANCE

(3) The Staff

Local, state, and federal organization for relief and public assistance. Analysis and evaluation of direct and work relief programs. Study of case materials dealing with principles and practices of public assistance to dependent children, the blind, the aged, and the unemployed. Prereq., 9 hrs. including 223.

235. PUBLIC WELFARE ADMINISTRATION

(3) The Staff

The history, functions, and problems of organization and administration of public welfare in local, state, and federal governments. Specific problems include relationship between public and private agencies, supervision and control, selection of personnel, need for reorganization, and financing. Prereq., 6 hrs.

236. PROPAGANDA

(3) Taylor

Methods and techniques of propaganda; its legitimate uses and its abuses; its relation to such social phenomena as stereotypes; sentiments, public opinion, social attitudes, and mass convictions. Prereq., 6 hrs.

238. OBSERVATION IN SOCIAL AGENCIES

(1) Cusick, Jeddeloh

Observing the functions, methods, and performance of an agency while it is engaged in its day by day activities. The student will participate through assigned tasks; in addition the student will report to the training supervisor for conferences. Two afternoons a week must be set aside for work at the agency. Prereq., 9 hrs., permission.

239. INTRODUCTION TO CASE WORK

21 Cusick

An introductory course in the understanding of the case work process and the development of techniques of interviewing, recording, case analysis and treatment. Prereq., 9 hrs., permission.

240. ADVANCED CASE WORK

(2) Cusick

Continuation of Soc. 239 which broadens and deepens the understanding and skills developed in the previous course and which applies to the more advanced type of case in actual practice. Prereq., 12 hrs. including 239, permission.

241. JUVENILE COURT SERVICES

(2) Cusick

A university field work unit is maintained by a cooperative plan with the Juvenile and Probate Courts of Athens County, Ohio. Two school days each week must be reserved for field work. Prereq., 12 hrs. including or with 240. Fee, \$5.

242. ADVANCED JUVENILE COURT SERVICES

(2) Cusick

A continuation of Soc. 241 on an advanced level. Prereq., 12 hrs. including 240 and 241, permission. Fee, \$5.

243, 244. CHILD WELFARE SERVICES

(2) Cusick

A university field work unit is maintained through a cooperative plan with child welfare service in Athens County, Ohio. Two school days each week must be reserved for field work. Prereq., 12 hrs. including or with 240. Fee, \$5.

245, 246. FAMILY WELFARE SERVICES

(2) Cusick

The family case worker is trained through a cooperative plan with a selected family welfare agency working in the rural counties of this region. Two school days each week must be reserved for field work. Prereq.: (for 245) 9 hrs., and 239 or with 239; (for 246) 12 hrs. including or with 240. Fee, \$5.

247a. VISITING TEACHER (Summer session only) (3) Jeddeloh and Staff (Same as Ed. 247a) Prereq., 6 hrs., teaching experience, and permission. Fee, \$3.

249. CASE WORK IN PUBLIC WELFARE

(3) Cusick

The functions, materials, and the special approach of case work with the aged. Prereq., 12 hrs. including 239, or equivalent professional experience; permission.

250. ADVANCED CASE WORK WITH THE AGED

(3) The Staff

An intensified and enriched course in the principles and procedures of the case work approach to the problems of the aged. Prereq., 15 hrs. including 239 and 249 or equivalent professional experience, permission.

251. PROBLEMS OF THE AGED

(3) Jeddeloh

An intensive study of the health and the personality of the aged and of senile deterioration; the nature, extent, and use of community facilities in dealing with these problems; the important but limited role of the case worker in this connection. Lectures, clinics, and project work. Prereq., 15 hrs. including 249, or equivalent professional experience; permission.

253. INSTITUTIONAL SOCIAL SERVICE

(3-5) Cusick, Jeddeloh

Internship in correctional institutions and institutions for the care of children. The course includes training in staff duties at the institution. Prereg., 12 hrs. and permission.

255. INTERNSHIP TRAINING IN JUVENILE COURTS (3-6) Cusick, Jeddeloh Training in staff duties in juvenile courts on an internship basis, supplemented by a controlled program of study and research. Prereg., 15 hrs.

257. INTERNSHIP TRAINING IN SOCIAL AGENCIES (3-8) Cusick, Jeddeloh Case work training in social agencies on an internship basis under the immediate supervision and direction of the agencies and the general control and program planning of the university. Prereq., 15 hrs. and permission.

270. IN-SERVICE TRAINING

(1-3) The Staff

In-service training for court and welfare personnel at the request of organizations, agencies, and institutions. Upgrading and "refreshing" of workers in particular professional situations on the basis of field conditions and needs. Prereq., graduate students, 6 hrs.; others, experience, permission.

272. COMMUNITY SURVEY AND PLANNING

(1-3) The Staff

At the request of organizations, agencies, and institutions, community leaders and groups are trained in the planning and management of particular community studies, surveys, and planning projects. Prereg., graduate students, 6 hrs.; others, experience, permission.

281. SOCIAL RESEARCH

(3) The Staff

The methods of quantitative and qualitative social research are presented. Procedures for planning, organizing, and conducting research projects are analyzed. Applications are made to specific problems by the students. Prereq., 9 hrs. and a course in statistics.

381. RESEARCH PROBLEMS IN SOCIOLOGY Prereg., 12 hrs., permission.

(1-3) The Staff

391. SEMINAR IN SOCIOLOGY

(2-3) The Staff

Prereg., 15 hrs.

395. THESIS

(4-8) The Staff

Prereq., permission.

SPEECH AND SPEECH CORRECTION

Professor Staats

Assistant Professors Jukes, Andersch, LaFollette Instructors Lane, Koops, Tillson, Newell, Hahne, Pearce Visiting Lecturer Reinbold

SPEECH

I. FUNDAMENTALS OF SPEECH

(1) Andersch, The Staff

Speech training based on a diagnostic study of each student's speech needs and abilities. Classroom performances afford the opportunity of acquiring and developing basic techniques which will aid in easy and effective participation in everyday speaking situations. Students with special speech problems will be given the opportunity of individual remedial instruction. Fee, \$1.

3. PUBLIC SPEAKING

(2) Staats, Jukes, Pearce

A fundamental course in effective speaking. Practice in presenting short informative, entertaining, and persuasive speeches with emphasis upon intellectual and emotional adjustments to speaking situations. Conferences with instructor. Prereq., 1 or proficiency test.

25. PRINCIPLES OF ARGUMENTATION

(2) Staats

Analysis of the debate proposition, preparation of the brief, study of evidence, and class debates.

34. ORAL INTERPRETATION OF LITERATURE

Tills

Effective techniques in reading aloud; aid in the development of adequate intellectual and emotional responsiveness to the meaning of literature. Consideration given the various schools of interpretation. Discussion of theory. Practice in reading aloud. Prereq., 2 or 3.

110. PARLIAMENTARY LAW

(1) Staats

A study of the techniques involved in conducting a public gathering and in presiding over an assembly.

112. ADVANCED PUBLIC SPEAKING

(2) Staats

An extended study and application of the principles of public speaking. Special emphasis is placed on the content of the speech. A practical study of public discussion as a social problem-solving technique is included. Prereq., 2, 3, or 25.

113. PUBLIC ADDRESS

(2) Staats

Designed to furnish the student a deeper insight into the rhetorical aspects of the public address. This course furnishes opportunity for the preparation of speeches for local, state, and national oratorical contests. Emphasis is placed on informal, conversational delivery. Classical standards as to preparation and organization are maintained. Prereq., 2, 3 or 112, and 25.

117. DEBATE PRACTICE

(2-6) Staats

Preparation of debate cases and participation in intercollegiate debates. Not more than three hours may be scheduled by a student in one semester. Prereq., 25.

162x. TEACHING OF SPEECH

(2) Staats, Andersch

(Same as Ed. 162x) Emphasis placed on the development of speech improvement programs in the elementary school and high school; a comprehensive survey of the literature, materials, and methods suitable for the curricular and extra-curricular program. Students will concentrate in the area in which they expect to teach. Prereq., 2, 25, 112, or permission.

202. ADVANCED ORAL INTERPRETATION

(2) Staats, Pearce, Newell

Continuation of Dram. A. 34 with emphasis upon developing skill in oral rendition of the short story, prose, and various forms of poetry. Prereq., 34.

209. RHETORICAL THEORY

(3) Staats

A detailed study of the principles of rhetoric based upon the theories of Aristotle, Cicero, Quintilian, and Adams. Modern viewpoints are investigated; speeches of eminent orators are analyzed. Prereq., F. A. 203 and 204.

391. SEMINAR IN SPEECH

(2-3) Staats

Problems in speech, the various speech movements, and the evolution of the speech curriculum. Remedial speech demands in the elementary and secondary school work. Assigned problems. Prereq., 15 hrs.

395. THESIS

(4-8) The Staff

Prereq., permission.

Additional course:

F. A. 203-204—History of Oratory

SPEECH CORRECTION

2. VOICE AND ARTICULATION

(2) LaFollette, Andersch, Koops

Designed to help each student to discover and remedy his vocal and articulatory problems. Group drills and individual instruction arranged to develop good voices and good voice control. Special attention given to pronunciation problems. Fee, \$2.

195. PRINCIPLES OF SPEECH CORRECTION

(3) Anderscr

The nature, symptoms, causes, etiology, and diagnosis of disorders of speech and voice. Clinical practice in the correction of speech anomalies. Prereq., 6 hrs., Psych. 1 or 5, or permission.

207. CLINICAL METHODS

(3) Andersch

Designed to give the beginning speech correction student clinical experience with articulatory defects and voice problems. Special emphasis placed on adaptation of material and methods for correction work with children. Prereq., 6 hrs., including 195.

210. SPEECH PATHOLOGY

(3) LaFollette

A detailed study of the anatomy of the vocal mechanism and speech disorders, such as stuttering, aphasia, cleft palate speech, spastic speech, and speech of the hard of hearing. 3 lec. Prereq., 195.

212. PHONETICS

(3) LaFollette

The study of speech sounds from a sociological, physiological, and acoustical point of view. Mastery of the international phonetic alphabet. Training in phonetic transcription. Discussion of various American dialects. Presentation of the sound systems of French, Italian, Spanish, and German. Prereq., 6 hrs. or permission.

219. AUDIOMETRY AND SPEECH AND HEARING PROBLEMS (3) Koops

Techniques of audiometric testing and clinical practice in the testing of children and adults. Interpretation of audiograms, criteria for educational placement, and referral of individuals with hearing loss. Principles of hearing aid selection. Organization of hearing conservation programs in the public school. Prereq., 6 hrs., or equivalent of 6 hrs., and permission. Fee, \$3.

220. ADVANCED CLINICAL METHODS

(3) Koops

Provides advanced correction students with clinical experience in more difficult problems such as stuttering, cleft palate speech, spastic paralysis, aphasia, and hearing loss. Prereq., 10 hrs., including 210.

223. LIP READING

(3) LaFollette

The basic principles of understanding language by observing the speaker's lips and facial expression. Emphasis on both theory and practice of speech reading. Special attention given to teaching methods. Prereq., 6 hrs.

225. PROBLEMS IN SPEECH CORRECTION

(2-3) Andersch

Case symptoms characteristic of major deviations from accepted speech, and current remedial techniques. Prereq., 12 hrs. including 195.

395. THESIS

(4-8) The Staff

Prereq., permission.

STATISTICS

Instructor Haynes (acting chairman)

155-156. BUSINESS STATISTICS

(3) Haynes

Elementary statistical methods used in business. 2 lec. and 2 lab. Fee, \$2 per semester.

171. ANALYSIS OF STATISTICAL DATA

(3) The Staff

The use and analysis of charts in controlling production, sales, and investment policies of business organizations. The interpretation of the validity and meaning of statistical concepts and published statistical data. Prereq., 155.

203. VARIABLES

(3) The Staff

The application of sampling theory to industrial operations. A course in industrial statistics especially recommended for students interested in production control. Prereq., 155 and Ec. 102.

206. TIME SERIES

(3) The Staff

The analysis of trends, seasonals and cyclical fluctuations. A course designed for students interested in economic research or the application of statistical techniques to industrial management. Prereq., 156 and Ec. 102.

241. BUSINESS CYCLES

(3) The Staff

A study of the nature, causes, and theory of the business cycle together with a survey of techniques of description and control. Prereq., 155, or with 155, and Ec. 102.

245. FORECASTING

(3) The Staff

The theory of prediction of social data and the theory of business forecasting with special reference to economic conditions and the business cycle. Prereq., 156, or with 156, and Ec. 102.

281. RESEARCH IN BUSINESS STATISTICS

(2-8) The Staff

Prereq., 18 hrs. commerce including 156 and permission.

391. SEMINAR IN BUSINESS STATISTICS

(2-10) The Staff

Prereq., 18 hrs. commerce including 156 and permission.

395. THESIS

(4-8) The Staff

Prereq., permission.

Additional course:

Math. 226-Theory of Statistics

ZOOLOGY Professors Krecker (chairman), Elliott, Frey, Stehr, Hudson Associate Professors Rowles, Gier Research Associate Roach

The major requirement in zoology for the A. B. degree is a minimum of 24 hours in approved departmental courses; for the B. S. degree, a minimum of 36 hours. These courses must include Zool. 3-4, 107, 120 or 121, 135 or 205. In addition, the following extra-departmental courses are required: Chem. 1-2 or 3-4, Math. 125, Phil. 103 or 201. Students who substitute a year in medical or dental school for the senior year or who complete the hospital training in nursing are credited with 16 hours on the major for a B. S. degree and 8 hours on the major for the A. B. degree. Those who complete the affiliated training in medical technology at Mount Carmel Hospital are credited with 32 hours toward the B. S. degree.

Curricula are outlined by the College of Arts and Sciences for students in premedical, predental, nursing, and medical technology courses. Students who wish to prepare for federal or state biological services such as game management, biological surveys, fisheries, and insect control should follow the curricula on insect control on page 105.

3-4. GENERAL ZOOLOGY

(3) Krecker, Stehr, Gier

A survey of zoological and biological principles. Chief topics: organization and physiology of a typical animal; review of the animal kingdom including references to economic importance, habits, life histories; the evolution of organisms; distribution and relation of animals to their environment; principles of heredity. 2 lec. and 2 lab. Fee, \$4.

103. READINGS IN BIOLOGY

(I) Krecker

A course for students interested in advances in biological fact and thought, especially as applied to the field of human affairs. Prereq., 4 or high school biology. Fee, \$1.

107. PRINCIPLES OF HEREDITY

(3) Krecker

An introduction to heredity. Fundamental principles and mechanism of heredity and a review of what is known regarding heredity in man. Consideration of practical applications to heredity in social welfare, public affairs, and race betterment. Prereq., 4, or 6 hrs. botany.

113. BIOLOGY OF VERTEBRATES

(4)

A study of vertebrate animals, other than birds, emphasizing classification, life histories, and distribution. Discussions and study of museum collection, supplemented with field work. 2 lec., 4 lab., and field work. Prereq., 4. Fee, \$4.

118. ORNITHOLOGY

(3) Gier

An intensive study of birds and bird biology, emphasizing classification, migration, life histories, and economic values. Identification in the field, supplemented by museum specimens. 2 lec., 2 lab., and field work. Prereq., 4. Fee, \$3.

119. GENERAL ENTOMOLOGY

(4) Stehr

A study of the structure, habits, and life histories of insects, with practice in collecting, mounting, and identification. 2 lec. and 4 lab. Prereq., 4. Fee, \$4.

120. COMPARATIVE VERTEBRATE ANATOMY

(4) Elliott

A comparative study of the body systems of vertebrates, with laboratory work covering various type forms. 2 lec. and 4 lab. Prereq., 4. Fee, \$6.

121. ELEMENTS OF ANATOMY

(3) Elliott

Course for majors in zoology other than premedical students. Particular emphasis is given to a study and dissection of the head, thorax, and abdomen of the mammal. Illustrated by dissection of a cat. 2 lec. and 2 lab. Prereq., 4. Fee, \$5.

123. ANATOMY AND KINESIOLOGY

(4) Elliott, Trepp

(Same as P. W. 123) Course for majors in physical welfare. All body systems are studied, with particular emphasis on the skeleton, joints and muscles, including muscular movements and muscular exercises in their relation to the problems of bodily development and efficiency. Prereq., 4. Fee, \$5.

124. HISTOLOGY

(4) Elliott

A study of the fundamental body tissues of vertebrates followed by a study of the histology of the various body systems. 2 lec. and 4 lab. Prereq., 120 or 121. Fee, lab. \$5, breakage \$5.

125. ANIMAL MICROTECHNIC

(3) Elliott

The principles and methods of preparing animal material for microscopic study. Practice in fixing, embedding, sectioning, staining, and mounting tissues. Principles of the microscope and its accessories. 1 lec. and 4 lab. Prereq., 4, junior or senior rank. Fee, \$5.

135. ELEMENTS OF PHYSIOLOGY

(4) Rowles

Blood, digestion, metabolism, circulation, respiration, excretion, reproduction, internal secretion. Recommended for home economics students and department majors exclusive of premedical students. Offered each semester. 2 lec. and 4 lab. Prereq., 4, or 3 and 6 hrs. home economics. A knowledge of organic chemistry is desirable. Fee, \$5.

136. ELEMENTS OF PHYSIOLOGY

(4) Rowles

Physiology of muscle and nerve, central nervous system, special senses, circulation, respiration, excretion. Special emphasis is placed upon aspects of physiology related to exercise. Recommended for physical welfare students. 2 lec. and 4 lab. Prereq., 120 or 123. Fee, \$4.

138. PHYSIOLOGICAL CHEMISTRY

(3) Rowles

An elementary course which includes: the chemistry of carbohydrates, proteins, fats, and phospholipids; enzyme action; digestion of foods; absorption and history of foods in the body; urine analysis; energy requirements of the body; vitamins; hormones. 2 lec. and 4 lab. Prereq., Chem. 113 with 117; open to home economics majors only. Fee, lab. \$4, breakage \$5.

141. ELEMENTARY BACTERIOLOGY

(4) Frey

Morphology and physiology of bacteria, staining reactions, preparation of media, and the biochemical reactions resulting from bacterial activity. Bacteriology majors are referred to Zool. 211. 2 lec. and 4 lab. Prereq., 4, or 6 hrs. botany, or 8 hrs. chemistry. Fee, \$4.

145. CLINICAL TECHNIC

(2) Frey

The theory and practice of making various tests used in laboratories of clinical pathology with emphasis upon hematology and urinalysis. Prereq., 211 and permission. Fee, \$2.

146. CLINICAL TECHNIC

(2) Frey

A continuation of course 145. Major emphasis will be upon blood chemistry determinations and other advanced techniques. Prereq., 145 and permission. Fee, \$2.

168z. TEACHING OF BIOLOGY

(2) Stehr

(Same as Ed. 168z) The following topics are among those considered: aims and objectives of zoology courses; survey of available texts, manuals, and reference books; various methods of instruction; sources of laboratory equipment and supplies; special aids in instruction;

examinations; controversial topics in biology. The student is given opportunity to examine and use the books, materials, and equipment discussed. Prereq., 4 and an additional laboratory course in zoology.

201. MAMMALIAN ANATOMY

(4) Elliott

The anatomy of mammals with particular emphasis on the cat. 2 lec. and 4 lab. Prereq., 120. Fee, \$5.

202. VERTEBRATE EMBRYOLOGY

(4) Elliott

All phases of vertebrate development are considered, and particular emphasis in laboratory is given to the chick and the pig. 2 lec. and 6 lab. Prereq., 120. Fee, lab. \$5, breakage \$5.

204. VERTEBRATE NEUROLOGY

(4) Elliott

A comparative study of the brain and spinal cord of vertebrates with emphasis upon the reaction systems. A preliminary study of the embryological development and general histological structure of the nervous system. Dissection of the brain of shark, sheep, and man are followed by a microscopic study of various levels of brain and spinal cord. 2 lec. and 4 lab. Prereq., 120 or 121. Fee, \$5.

205. PRINCIPLES OF PHYSIOLOGY

(4) Rowles

Fundamental principles of the activity of living things, the physiochemical composition of living material, the functions of cell components, properties of solutions, membrane phenomena, enzymes, secretions, and biological media. Not open for graduate credit to students majoring in physiology. 2 lec. and 6 lab. Prereq., 4 and Chem. 2 or 4. Fee, \$5.

209. BIOLOGICAL CHEMISTRY

(4) Rowles

A brief introduction to physical chemistry of true and colloidal solutions; fundamental principles of enzyme action; chemical nature of and tests for: carbohydrates, proteins, fats; digestion, and metabolism; chemical analysis of: blood, lymph, bile, feces, milk, epithelial and connective tissue, and urine. 2 lec. and 4 lab. Prereq., 4 hrs. physiology and Chem. 113 and 117 or 115 and 119. Fee, lab. \$5, breakage \$5.

211. GENERAL BACTERIOLOGY

(4) Frey

A study of the structure, classification, and relationships of bacteria; preparation of cultures, staining technic, and biochemical reactions. Not open for graduate credit to majors in bacteriology. 2 lec. and 4 lab. Prereq., 4 and Chem. 113 or 115. Fee, \$5.

212. PATHOGENIC BACTERIOLOGY

(4) Frey

Bacteria in relation to human disease. The culture and identification of disease-producing bacteria, protozoa, higher fungi, and filterable viruses. Methods of transmission and means of protection, and disease symptoms and immunity. 2 lec. and 4 lab. Prereq., 211. Fee, \$5.

213. BACTERIOLOGICAL REVIEW

(2) Frey

An advanced theoretical course in bacteriology reviewing the entire field. Special reference is made to dissociation, growth curves of bacteria, anaerobiosis, oxidation and reduction, metabolism of bacteria. Prereq., 8 hrs. bacteriology and permission.

216. ANIMAL PARASITES

(4) Krecker, Hudson

A study of parasites in relation to human disease. Parasites infesting man, their life histories, the diseases they produce, means of prevention and cure. 2 lec. and 4 lab. Prereq., 10 hrs. and permission. Fee, \$5.

220. ADVANCED ENTOMOLOGY

(4) Stehr

Intensive study of insect morphology and of the principles and methods of insect classification and identification, with special emphasis on the more extensive orders. 2 lec. and 4 lab. Prereq., 119. Fee, \$4.

225-226. ADVANCED INVERTEBRATE ZOOLOGY

(4) Steh

A study of the structure, relationships, and life histories of representative members of the various invertebrate phyla, together with related general principles. 2 lec. and 4 lab. Prereq., 10 hrs. and permission. Fee, \$4.

228. ANIMAL ECOLOGY

(4) Stehr

A study of animals in relation to their surroundings. Discussion of the general principles governing animal distribution and animal association. 2 lec. and 4 lab. or field work. Prereq., 10 hrs. and permission. Fee, \$4.

234. AQUATIC MANAGEMENT

(3) Roach

A practical course dealing with the manipulation of the natural factors affecting a maximum sustained yield of our aquatic resources. Includes applications of limnology and ichthyology, with emphasis on ecological relationships and habitat preferences of aquatic organisms. 1 lec. and 4 lab. or field work. Prereq., 114 and 228. Fee, \$3.

243. BIOLOGICAL STUDIES (1-4 a semester in any of the following)

Semi-independent studies under the guidance of the instructor. Prereq., 10 hrs. and permission. Fee, \$1 for each credit hour.

- a. Bacteriology—studies in water, dairy, and pathogenic bacteriology; serology and advanced technic. Frey, Leonard.
- b. Ecology—field and laboratory studies of the relation between animals and their surroundings. Krecker, Stehr.
- c. Entomology—classification, structure, life histories, and economic aspects of insects. Stehr.
- d. Genetics—breeding experiments, pedigree analysis, and library work in the field of heredity. Krecker.
- e. Invertebrate Zoology—classification, structure, embryology, and life history of invertebrates. Krecker, Stehr.
- f. Parasitology—animal parasites. Krecker.
- g. Physiological Zoology—physiological and related experimental studies. Rowles.

- h. Readings in Biology—readings dealing with biological history, theory, and advances. Krecker.
- Technician's Methods—technic and theory of blood, urine, gastric analysis, fecal examination, and serological methods. Frey.
- j. Vertebrate Anatomy—gross and microscopic anatomy, embryology, histological technic. Elliott.
- k. Vertebrate Zoology—classification, economic control of vertebrates.

383. MINOR RESEARCH IN BIOLOGY (1-4 a semester in any of the subjects)

The Staff

Problems of a research and semi-research nature in anatomy, bacteriology, ecology, entomology, invertebrate zoology, ornithology, parasitology, physiological zoology, and vertebrate zoology. Prereq., 15 hrs. and permission. Fee, \$1 for each credit hour.

385. RESEARCH IN BIOLOGY

(1-4) The Staff

Research work in anatomy, bacteriology, ecology, entomology, invertebrate zoology, ornithology, parasitology, physiological zoology, and vertebrate zoology. This course fulfills the thesis requirements. Prereq., 20 hrs. and permission. Fee, \$1 for each credit hour.

391. SEMINAR IN ZOOLOGY (Not offered in 1947-1948) (1-4) Krecker
A study of special topics and reports on current literature. Prereq.,
16 hrs. and permission.

MEDICAL TECHNOLOGY

Mount Carmel Hospital Staff: H. B. Davidson, M.D., Director

The following courses are offered at Mount Carmel Hospital, Columbus, Ohio. See curriculum on page 103.

191. URINALYSIS Four weeks (3)
The physical, chemical, and microscopic study of urine.

192. HEMATOLOGY Eight weeks (5)

Total red and white blood counts, hemoglobin determinations, differential counts of white blood cells, sedimentation rates, blood typing, and blood cross-matching.

193. BACTERIOLOGY, SEROLOGY, AND PARASITOLOGY Eighteen weeks (11)

A review of the field of medical bacteriology with particular emphasis upon and reference to methods of recognition and detection of various types of bacteria; methods in which blood serum can be used in the recognition and diagnosis of disease; review of the various parasites which are pathogenic to man; methods of examining feces; the microscopic and bacteriologic study of sputum.

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194. CHEMISTRY

Thirteen weeks (8

A study of the methods of blood chemistry determinations; methods of gastric analysis and the more complicated chemical procedures for urine and other body products.

195. HISTOLOGIC TECHNIC

Six weeks (4)

A review of the fundamental procedures in the preparation of tissue for microscopic examination; a study of the special stains commonly used in microscopic examination of human tissue; experience in handling, on a routine basis, large amounts of human tissue for microscopic study.

196. BASAL METABOLISM AND ELECTROCARDIOGRAPHY Two weeks (1)
Study of the methods of determining the basal metabolic rate, a

study of the electrocardiograph and methods of taking electrocardiographic tracings.

SUMMARY OF ENROLLMENT - JUNE 17, 1946 TO MARCH 1, 1947

								1				
RESIDENT STUDENTS	Sum	Summer Sessions 1946	ssions	Fir	First Semester 1946-1947	ester 47	Seco	Second Semester 1946-1947	nester 47	Tot Dupli	Total for Year Duplicates excluded	Year ccluded
Athens Campus	M	W	T	M	W	Œ	M	W	H	M	W	H
Graduate College	105	51	156	65	42	107	89	88	106	165	92	257
Seniors	236	170	406	318	196	514	405	212	617	547	373	920
Juniors	173	88	261	368	251	619	484	258	742	524	310	834
Sophomores	261	56	317	630	471	1101	828	419	1277	904	475	1379
F'reshmen	410	40	450	2063	434	2497	1690	400	2090	2035	455	2490
Specials	64	22	121	45	24	69	45	27	72	86	73	171
Cadet Teachers		11	12	62	24	56		21	22	က	26	29
TotalsTotals	1250	473	1723	3491	1442	4933	3551	1375	4926	4276	1804	0809
THE BRANCHES												
Chillicothe		,		195	79	274	189	67	256	243	66	342
PortsmouthZanesville				262	119	381	246	112	358	324	148	472
				700	#	#04	FOT	6	130	2007	8	007
Totals				620	239	859	594	218	812	773	307	1080
Grand Totals	1250	473	1723	4111	1681	5792	4145	1593	5738	5026	2002	7118
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